IKOS SENIOR LIVING

32-11 31ST STREET
QUEENS, NEW YORK

Draft Remedial Action Work Plan

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AKRF Project Number: 240854

Prepared for:

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CERTIFICATIONS

I, Rebecca A. Kinal, certify that I am currently a NYS registered professional engineer and that this Remedial Action Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).

Rebecca A. Kinal	DRAFT	DRAFT
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LIST OF ACRONYMS

Acronym	Definition
1,1,1-TCA	1,1,1-trichloroethane
1,1-DCE	1,1-dichloroethylene
ACM	Asbestos Containing Material
AOCs	Areas of Concern
ASTM	American Society for Testing and Materials
AWQSGVs	Ambient Water Quality Standards and Guidance Values
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bsg	Below Surface Grade
BTEX	A group of VOCs comprising benzene, toluene, ethylbenzene, and xylenes
CAMP	Community Air Monitoring Plan
Cis-1,2-DCE	Cis-1,2-dichloroethylene
CoC	Chain of Custody
COC	Contaminants of Concern
DER-10	Division of Environmental Remediation Technical Guide 10
DPP	Direct-push Probe
DUSR	Data Usability Summary Report
ECs	Engineering Controls
ELAP	New York State Environmental Laboratory Approval Program
EM	Electromagnetic
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
ESC	Environmental Studies Corporation, Incorporated
eV	Electron Volt
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
HDPE	High-density Polyethylene
ICs	Institutional Control
IDW	Investigation Derived Waste
LBP	Lead-based Paint
MCL	Maximum Contaminant Level
MEK	Methyl Ethyl Ketone
mg/kg	Milligrams per Kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
NAVD88	North American Vertical Datum of 1988
ND	Non-Detectable
NTUs	Nephelometric Turbidity Units
NYCRR	New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
ORP	Oxidation-Reduction Potential

Acronym	Definition
OSHA	United States Occupational Safety and Health Administration
P.S.	Public School
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethylene
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PID	Photoionization detector
ppb	Parts per billion
ppm	Parts per million
ppt	Parts per trillion
PVC	Polyvinyl Chloride
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QEP	Qualified Environmental Professional
QHHEA	Qualitative Human Health Exposure Assessment
RA	Remedial Action
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RRSCO	Restricted Residential Soil Cleanup Objective
SCOs	Soil Cleanup Objectives
SIM	Selective Ion Monitoring
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethylene
UST	Underground Storage Tank
UUSCO	Unrestricted Use Soil Cleanup Objective
VEC	Vapor Encroachment Condition
VOC	Volatile Organic Compound
µg/kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
$\mu g/m^3$	Micrograms per Meter Cubed

EXECUTIVE SUMMARY

Site Description/Physical Setting/Site History

The Site is an approximately 0.48-acre parcel located at 32-11 31st Street in the Astoria section of Queens, New York, also identified as Borough of Queens Tax Block 611, Lot 25 on the New York City Tax Map. On October 6, 2025, Ikos Senior Living LLC (the "Applicant") entered into a Brownfield Cleanup Agreement (BCA) (Index No. C241290) for the Site with the New York State Department of Environmental Conservation (NYSDEC) as a Volunteer.

The Site currently consists of a municipal, asphalt-paved parking lot and is not developed with any permanent structures. The Site location is shown on Figure 1, and the Site Plan is shown on Figure 2.

The Site is abutted to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. The greater surrounding area includes primarily commercial, retail, residential, and transit uses. Surrounding land use is shown on Figure 3.

A review of available records indicates that the Site was developed with a residential dwelling from at least 1898 to 1979 and included several vacant lots. The Site was depicted in its current configuration as one contiguous lot and identified as a parking facility by 1988. The City of New York has owned and operated the Site since December 18, 1997, through a court order in which the City of New York acquired the title to the Site via eminent domain for use as a municipal parking field.

Summary of the Work Performed under the Remedial Investigation (RI)

The RI was conducted between April 27 and May 13, 2026 under a NYSDEC-approved Remedial Investigation Work Plan (RIWP) and included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 15 soil borings with collection and laboratory analysis of 80 soil samples.
3. The installation of 10 permanent, 2-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 10 groundwater samples.
4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.
5. The performance of a groundwater monitoring well elevation and location survey of the permanent monitoring wells.

The RI was based upon the results from Phase II investigations conducted by AKRF in 2022 and 2024; the results of those investigations were incorporated into the RI Report.

AKRF conducted a Phase II investigation at the Site between October 3 and 5, 2022 under a New York City Department of Environmental Protection (NYCDEP)-approved Phase II Work Plan and included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 7 soil borings with the collection and laboratory analysis of 14 soil samples.
3. The installation of 4 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 4 groundwater samples.

4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.

AKRF conducted a RI at the Site between December 11 and 13, 2024 under a New York City Mayor's Office of Environmental Remediation (NYCOER)-approved Phase II work plan and included the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.)
2. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
3. The advancement of 9 soil borings with the collection and laboratory analysis of 23 soil samples.
4. The installation of 3 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 3 groundwater samples.
5. The installation of 3 temporary soil vapor probes and the collection and laboratory analysis of 3 soil vapor samples.

Summary of Hydrogeological Findings

The following geologic and hydrogeologic conditions were noted during the RI:

1. Based on the May 2026 survey of the newly installed monitoring wells by Fehringer Surveying, PC, the Site lies at an elevation of 50.16 to 55.6 feet above the North American Vertical Datum of 1988 (NAVD88).
2. The stratigraphy of the Site, from the surface down, generally consisted of a surficial layer of asphalt, underlain by fill material comprised of sand, silt, brick, and gravel extending from grade to approximately 2 to 10 feet below grade during the 2026 RI. During previous investigations, fill material was encountered at depths ranging from just below surface grade down to approximately 5 to 14 feet below grade. The fill was underlain by native material comprised of sand, silt, and gravel to the boring terminus. Bedrock was encountered between 47 and 51 feet below grade in borings RI-SB-01, RI-SB-05, and RI-SB-08.
3. Groundwater beneath the Site ranges from elevation 18.82 to elevation 20.08 (NAVD88), or 29.91 to 36.12 feet below grade across the Site. Regional groundwater flows in a westerly direction toward the East River. Based on the site-specific well elevation survey, groundwater flows in a generally southwesterly direction beneath the Site.

Summary of Environmental Findings

Soil

2026 RI

- Volatile organic compounds (VOC) detections included acetone, ethylbenzene, m/p-xylene, o-xylene, tetrachloroethylene (PCE), and total xylenes at concentrations up to 3.8 milligrams per kilogram (mg/kg). PCE was detected at low levels in many samples but was detected above the NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) in one soil sample (RI-SB-11_4-6_20260428 at a concentration of 3.8 mg/kg). There were no VOC exceedances above the RRSCOs.
- Nine SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene were detected above the UUSCOs and/or RRSCOs in up to four soil samples at concentrations up to 6.9 mg/kg [benzo(a)pyrene in sample RI-SB-10_0-

0.17_20260427]. SVOCs were detected at individual concentrations ranging from 0.0047 (acenaphthylene in RI-SB-05_2-4_20260501) to 12 mg/kg in (fluoranthene in RI-SB-10_0-0.17_20260427). Total SVOC concentrations ranged from non-detect to 39.34 mg/kg in sample RI-SB-11_4-6_20260428.

- Polychlorinated biphenyls (PCBs) were detected above laboratory reporting limits in sample SB-02_0-2_20221003 at a concentration of 0.63 mg/kg in PCB-1260 (Aroclor 1260) and PCB-1268 (Aroclor 1268) but below UUSCOs and RRSCOs. Pesticides were detected at individual concentrations ranging from 0.0029 (4.4'-DDE in RI-SB-08_0-2_20260501) to 0.013 mg/kg in (fluoranthene in RI-SB-10_0-0.17_20260427). The pesticide P,P'-DDT was detected above the UUSCO, but below the RRSCO in 10 soil samples.

- Copper, lead, mercury, and zinc were detected in soil samples across the Site above UUSCOs in shallow fill material down to 6 feet below grade. Lead was additionally detected above the RRSCO of 400 mg/kg in sample RI-SB-10_4-6_20260427 at a concentration of 4,660 mg/kg. Mercury was detected above the RRSCO of 0.3 mg/kg in sample RI-SB-02_0-0.17_20260429 at a concentration of 0.32 mg/kg. Metals were detected at individual concentrations ranging from 0.0067 (mercury in RI-SB-13_0-0.17_20260428) to 72,000 mg/kg in (calcium in RI-SB-08_0-0.17_20260501).

- Perfluorooctanesulfonic acid (PFOS) was detected above the NYSDEC unrestricted use guidance value of 0.88 parts per billion (ppb) in four samples with concentrations ranging from 1.02 ppb to 2.34 ppb. PFOS were detected at individual concentrations ranging from 0.098 ppb (RI-SB-08_0-2_20260501) to 2.34 ppb (fluoranthene in RI-SB-10_0-0.17_20260427). Perfluorooctanoic acid (PFOA) was detected above the NYSDEC unrestricted use guidance value of 0.66 ppb in two samples, with concentrations up to 1.54 ppb. PFOA were detected at individual concentrations ranging from 0.06 ppb in RI-SB-10_0-0.17_20260427 to 1.54 ppb in RI-SB-10_6-8_20260427. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

<u>2022 and 2024 Phase II Investigations</u>

- VOCs detections included 1,2,4-trimethylbenzene, acetone, PCE, toluene, and trichloroethylene (TCE) at concentrations up to 0.16 mg/kg. Acetone was detected above the UUSCO of 0.03 mg/kg in three samples. There were no exceedances of the RRSCOs or PGWSCOs.

- SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene were detected at concentrations up to 29 mg/kg, above the UUSCOs and/or RRSCOs [benzo(b)fluoranthene in sample SB-05_0-2_20221004].

- PCBs were not detected above the UUSCOs or RRSCOs. The pesticides cis-chlordane, P,P'-DDE, and P,P'-DDT were detected above the UUSCOs, but below the RRSCOs.

- Copper, lead, mercury, and zinc were detected in soil samples across the Site above their respective UUSCOs in shallow fill material down to 4 feet below grade. Mercury was detected above the RRSCO of 0.3 mg/kg in one sample (SB-04_0-2_20221003) at a concentration of 0.59 mg/kg.

- During the 2024 Phase II investigation, one soil sample was analyzed for PFAS (SB-08_0-2_20241213). PFOS was detected above the NYSDEC unrestricted use guidance value of 0.88 ppb at a concentration of 2.17 ppb. PFOA and 1,4-dioxane were not detected above laboratory reporting limits in the soil sample.

Groundwater

2026 RI

- The VOCs acetone, chloroform, cis-1,2-dichloroethene, dichlorobromomethane, PCE, and/or TCE were detected in all 10 groundwater samples at concentrations ranging from 0.27 micrograms per liter (µg/L) to 860 µg/L (PCE in sample RI-MW-03_20260513). Chloroform, cis-1,2-dichloroethene, PCE, and/or TCE were detected above the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs) in all groundwater samples.
- SVOCs were not detected above laboratory reporting limits.
- PCBs and pesticides were not detected above laboratory reporting limits.
- In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for manganese and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for iron, manganese, and sodium, up to 169,000 µg/L.
- PCBs or pesticides were not detected above laboratory reporting limits in any of the groundwater samples.
- PFOS was detected above its NYSDEC guidance value of 2.7 parts per trillion (ppt) in all eight groundwater samples, and the blind duplicate. PFOA was detected above its NYSDEC guidance value of 6.7 ppt in in all eight groundwater samples, and the blind duplicate. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

2022 and 2024 Phase II Investigations

- The VOCs acetone, benzene, bromodichloromethane, chloroform, cis-1,2-dichloroethene, dibromochloromethane, m,p-xylenes, methyl ethyl ketone, methylene chloride, PCE and/or TCE were detected in all seven groundwater samples at concentrations ranging from 0.3 µg/L to 330 µg/L (PCE in sample TW-04_20221004).
- Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, and indeno(1,2,3-c,d)pyrene were detected in sample TW-01_20221005 at concentrations above the AWQSGVs, up to 6.2 µg/L.
- PCBs and pesticides were not detected above laboratory reporting limits.
- In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for iron, magnesium, manganese, and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for arsenic, barium, beryllium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, sodium, thallium, and zinc up to 971,000 µg/L.
- PCBs or pesticides were not detected above laboratory reporting limits in any of the groundwater samples.
- The groundwater samples were not analyzed for PFAS. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

Soil Vapor

2026 RI

- Solvent-related VOCs (including bromodichloromethane, chloroform, chloromethane, cis-1,2-dichloroethene, methylene chloride, PCE, TCE, trans-1,2-dichloroethene, and trichlorofluoromethane) were detected in the soil vapor samples at individual concentrations

up to 12,000 micrograms per cubic meter (µg/m^3) from a diluted analysis (PCE in sample SV-02_20210825).

- Petroleum-related VOCs [such as 1,2,4-trimethylbenzene, 1,3-butadiene, 2,2,4-trimethylpentane, 1,3-dichlorobenzene, 4-methyl-2-pentanone, carbon disulfide, cyclohexane, methyl butyl ketone, methyl ethyl ketone, n-butane, n-heptane, n-hexane, tert-butyl alcohol, benzene, toluene, ethylbenzene, and m,p- and-o-xylenes (collectively referred to as BTEX)], were detected in the soil vapor samples at individual concentrations up to 150 µg/m^3 from a diluted analysis (m,p-xylene in sample RI-SV-03_20260429).
- When compared to the New York State Department of Health (NYSDOH) Decision Matrices, cis-1,2-dichloroethene, PCE, and TCE were detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples RI-SV-02_20260429, RI-SV-03_20260429, and RI-SV-04_20260429.

2022 and 2024 Phase II Investigations

- Solvent-related VOCs, including carbon disulfide, chloroform, cis-1,2-dichloroethylene, PCE, and TCE were detected at concentrations up to 1,900 µg/m^3 (PCE in sample SV-04_20221003).
- Petroleum-related VOCs, including 1,3-butadiene, 2,2,4-trimethylpentane, benzene, butane, cyclohexane, methyl ethyl ketone, n-heptane, n-hexane, styrene, and toluene were detected at concentrations up to 66 µg/m^3 (butane in sample SV-07_20241213).
- When compared to the NYSDOH Decision Matrices, cis-1,2-dichloroethene was detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples SV-01_20221004, SV-02_20221003, and SV-03_20221004. PCE was detected above the lowest level requiring mitigation, regardless of indoor air concentration in sample SV-04_20221003.

Areas of Concern (AOCs)

The following environmental issues identified during previous assessments were considered areas of concern (AOCs) for the RI. The AOCs included:

- Historic commercial, industrial, and automotive uses in the surrounding area, including a filling station, a garage and auto repair shop with gasoline tanks, a dry cleaner, and a machine shop and warehouse;
- Polyaromatic hydrocarbons (PAHs) in soil; and
- Elevated concentrations of solvent-related compounds in soil vapor and groundwater.

Qualitative Human Health Exposure Assessment

The Site currently consists of a commuter parking lot. The Site is capped by asphalt pavement and is accessible from 31st and 32nd Street. Currently, there is no potential exposure pathway from soil, groundwater, or soil vapor intrusion since the Site is capped and there are no buildings constructed on-site. Once redevelopment activities begin, there will be a potential exposure pathway from contaminated surface soil/fill to construction workers as these workers could potentially ingest, inhale, or have dermal contact with any exposed contaminated fill/soil. If future redevelopment plans require dewatering, there will be an additional potential exposure pathway as workers could potentially ingest or have dermal contact with the contaminated groundwater. Without remediation, once redevelopment of the Site has been completed, there will be a potential exposure pathway from ingestion, dermal contact, and/or inhalation of particulates from on-site soils that remain uncapped (i.e., landscaped areas) or inhalation of VOC vapors to adult and child residents, building support and maintenance staff, and visitors through cracks or openings in the foundation of the new building. In addition, there will be a potential exposure pathway from direct contact to soil that

remains uncapped (i.e., landscaped areas) at the Site to off-site pedestrians, visitors, cyclists, and adult and child residents. All potential exposure pathways in the future will be prevented through implementation of this RAWP.

Fish and Wildlife Assessment (FWIA)

The Site was assessed against the Fish and Wildlife Resources Impact Analysis (FWRIA) Decision Key located within DER-10, Appendix 3C to determine if an FWRIA was required. It was determined that an FWRIA was not required because no water sources or habitats are being impacted by the Site.

Summary of the Remedy

Remedial activities will be performed at the Site in accordance with this RAWP and the Department-issued Decision Document (DD). All deviations from this RAWP and/or the DD will be promptly reported to NYSDEC for approval and will be fully explained in the Final Engineering Report (FER). The selected remedial actions include:

1. A remedial program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

    - Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
    - Reducing direct and indirect greenhouse gases and other emissions;
    - Increasing energy efficiency and minimizing use of non-renewable energy;
    - Conserving and efficiently managing resources and materials;
    - Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
    - Maximizing habitat value and creating habitat when possible;
    - Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
    - Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
    - Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of New York (or most recent edition) to improve energy efficiency as an element of construction.

    As part of the remedial program, to evaluate the remedy with respect to green and sustainable remediation principles, an environmental footprint analysis will be completed. The environmental footprint analysis will be completed using an accepted environmental footprint analysis calculator such as SEFA (Spreadsheets for Environmental Footprint Analysis, USEPA), SiteWiseTM (available in the Sustainable Remediation Forum [SURF] library) or similar Department accepted tool. Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use will be estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, will be incorporated into the remedial

program, as appropriate. The project will include detailed requirements to achieve the green and sustainable remediation goals. Further, progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the Final Engineering Report (FER), including a comparison to the goals established during the remedial program.

Additionally, the remedial program will include a climate change vulnerability assessment, to evaluate the impact of climate change on the project site and the proposed remedy. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise will be identified, and the remedial program will incorporate measures to minimize the impact of climate change on potential identified vulnerabilities.

2. The proposed remedy is a dual Track 2/Track 4 Restricted Residential cleanup.
3. Removal of asphalt followed by excavation and off-site disposal of 1) all contaminated soil/fill in the upper 15 feet below ground surface (bgs) within the proposed new building cellar footprint to attain a Track 2 cleanup within this area, and 2) a minimum 2 feet bgs cut and all source material removal (soil/fill above PGWSCOs for CVOCs), including a tetrachloroethylene (PCE) hotspot around RI-SB-11, to attain a Track 4 cleanup in other areas of the Site.
4. Any unknown/unregistered tanks and associated piping, other structures associated with a source of contamination, and/or grossly contaminated soil/fill, if encountered, will be removed in accordance with applicable regulations.
5. Installation of support of excavation (SOE) necessary to enable excavation of contaminated soil/fill. SOE installation will comply with applicable local and state-controlled inspections.
6. Decommissioning of existing groundwater monitoring wells in accordance with NYSDEC CP-43 if monitoring well locations conflict with proposed building foundation elements and/or if monitoring wells cannot be safely preserved during construction.
7. A Site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) will be implemented during all ground-intrusive Site activities, which includes soil disturbance and loading activities, to monitor levels of VOCs and airborne particulates within the active work zones and around the perimeter of the Site.
8. A Special Requirements Community Air Monitoring Program (SRCAMP) will be implemented during all ground-intrusive Site activities within 20 feet of occupied structures and/or potentially exposed populations to monitor levels of VOCs and airborne particulates.
9. Screening for indications of contamination (by visual means, odor, and monitoring with a PID) of soil during all ground-intrusive Site work, including soil disturbance and loading activities.
10. Characterization and off-site disposal of all materials removed from the Site in accordance with all federal, state, and local rules and regulations for handling, transport, and disposal. Waste disposal facilities will be selected based on the data collected to date and the results of the planned waste classification sampling.
11. Performance of a Pre-Design Investigation (PDI) to support the remedy.
12. Importation of clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) to raise the Site grade after remedial excavation, construct the Site cover, and/or as needed for use as backfill. Fill material that does not exceed RRSCOs for any compound may be used on-site to backfill the Site. Soil exceeding the UUSCO for 1,4-dioxane will not be imported, per DER-10: Appendix 5 - Allowable Constituent Levels for Imported Fill or Soil, Subdivision 5.4(e). If PFOA or PFOS are detected in any sample at or above the RRGV, it will also be tested by the Synthetic Precipitation Leaching Procedure (SPLP). If

the SPLP concentrations of PFOA and PFOS are at or above 10 ppt, the soil will not be reused or imported. Analytical results will be compared to Table 375-6.8(b) of 6 NYCRR Part 375 and submitted to NYSDEC via a *Request to Import/Reuse Soil or Fill* form for review and approval prior to importation and placement on-site. All imported soil or soil proposed for reuse requires NYSDEC review prior to on-site placement.

13. Implementation of a groundwater treatment program to address elevated concentrations of chlorinated volatile organic compounds (CVOCs) in groundwater. Prior to the full implementation of the treatment program, a bench-scale treatability study will be conducted to more clearly define the design parameters; however, it is anticipated that the treatment will require approximately 32 injection points to distribute sodium permanganate (or other chemical) in the treatment area. The groundwater treatment program will be performed to treat groundwater between approximately 30 to 50 feet bgs.
14. Collection and laboratory analysis of post-excavation endpoint samples across the Site to document achievement of the remedy and/or remaining concentrations of contaminants in soil/fill after excavation is complete. Endpoint sampling will occur around any hotspots and/or additional AOCs identified during the remedial action based on the sampling frequency outlined in Section 5.4 of DER-10.
15. Construction and maintenance of a Site cover within the Track 4 portion of the Site to prevent human exposure to residual contaminants in soil/fill remaining under the Site, which will consist of: (1) a minimum of 2 feet of clean fill material placed in landscaped and permeable areas underlain by a demarcation barrier; (2) concrete building slabs (5-inch thick concrete slab in the cellar, 3-inch thick concrete rat slab in the crawl space, and 10-inch thick concrete slab in the first floor) underlain by a minimum 20-mil vapor barrier membrane, which doubles as a demarcation barrier, in the slab-on-grade portion of the proposed building; and (3) paved surfaces in roadway and sidewalk areas.
16. Installation and operation of an active sub-slab depressurization system (SSDS) below the proposed new building foundation to prevent vapor intrusion into the proposed building.
17. Installation of below grade elements of a contingency soil vapor extraction system (SVES) around the Site perimeter. Aboveground elements of the system will be installed and the SVES will be operated depending on post-remedial soil vapor concentrations of CVOCs.
18. Recording of an Environmental Easement (EE) with the New York City Register to prevent future exposure to any residual contamination remaining at the Site. The EE will: require the remedial parties/Site owners to complete and submit a periodic certification of ECs and ICs to the Department in accordance with Part 375-1.8 (h)(3); allow the use and development of the Site for restricted residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water without necessary water quality treatment, as determined by NYSDOH; and require compliance with a Site-specific NYSDEC-approved SMP.
19. Preparation of an SMP for long term management of residual contamination as required by the EE (in the Track 4 portion of the Site) including plans for: (1) ECs and ICs, (2) monitoring, (3) operation and maintenance, and (4) reporting. Inclusion of soil management provisions in the SMP, including an Excavation Work Plan.

REMEDIAL ACTION WORK PLAN

1.0 INTRODUCTION

Ikos Senior Living LLC (the "Applicant") entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in October 2025, to investigate and remediate a 0.48-acre property located at 32-11 31st Street in the Astoria section of Queens, New York, also identified as Borough of Queens Tax Block 611, Lot 25 on the New York City Tax Map. The Applicant is a Volunteer in the Brownfield Cleanup Program. Restricted Residential is proposed for the property. When completed, the Site will contain two new buildings: a 13-story residential building with approximately 167 affordable senior residential units and a partial cellar level along 31st Street, and a three-story community facility building (slab-on-grade) along 32nd Street. Refer to the Brownfield Cleanup Program (BCP) application for additional details.

This Remedial Action Work Plan (RAWP) summarizes the nature and extent of contamination as determined from data gathered during the Remedial Investigation (RI), performed between April 27 and May 13, 2026. It provides an evaluation of a Track 1 cleanup and other applicable Remedial Action alternatives, their associated costs, and the recommended and preferred remedy. The remedy described in this document is consistent with the procedures defined in DER-10, DER-31, and complies with all applicable standards, criteria and guidance, including the requirements of 6 NYCRR Part 375. The remedy described in this document also complies with all applicable Federal, State and local laws, regulations and requirements. All remedial actions and engineered installations described herein are necessary to implement the Site's remediation and to qualify the Site for issuance of a Certificate of Completion. The NYSDEC and New York State Department of Health (NYSDOH) have not yet determined that the Site poses a significant threat to human health and the environment or not. The RI for this Site did not identify fish and wildlife resources.

A draft Remedial Design Report will be submitted detailing the groundwater treatment, SSDS, and the contingent SVES Design.

1.1 Site Location and Description

The Site is located in the neighborhood of Astoria in the County of Queens, New York and is identified as Block 611, Lot 25 on the New York City Tax Map. The Site location is shown on Figure 1, and the Site Plan is shown on Figure 2. The approximately 0.48-acre Site is currently a commuter parking lot. The Site is abutted to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. A boundary map is attached to the BCA as required by Environmental Conservation Law (ECL) Title 14 Section 27-1419. The 0.48-acre property is fully described in Appendix A – Metes and Bounds. A global positioning system coordinate for the starting point is included.

1.2 Contemplated Redevelopment Plan

The Remedial Action to be performed under the RAWP is intended to make the Site protective of human health and the environment consistent with the contemplated end use. The proposed redevelopment plan and end use is described here to provide the basis for this assessment. However, the Remedial Action contemplated under this RAWP may be implemented independent of the proposed redevelopment plan.

The Site is currently zoned as R5/C4-5 along 31st Street and R5/C4-2A along 32nd Street. The Site was rezoned in March 2026 under the Ikos Senior Housing Rezoning & Urban Development Action Area Project (UDAAP), subject to City Environmental Quality Review (CEQR), and allows for the development of community facility space and increased residential space.

Currently, proposed plans include construction of two new buildings: a 13-story residential building with approximately 167 affordable senior residential units and a partial cellar level along 31st Street, and a three-story community facility building (slab-on-grade) along 32nd Street. The two buildings will be connected through a one-story community room. The proposed development plan is included in Appendix B.

The Site was also assigned an E-Designation (E-771) in October 2025 for hazardous materials as part of the Ikos Senior Housing Rezoning.

1.3 Description of Surrounding Property

The Site is bounded to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. The greater surrounding area includes primarily commercial, retail, residential, and transit uses.

The following sensitive receptors are located within 1,000 feet of the Site:

- The Learning Experience daycare, located at 31-57 31st Street, approximately 330 feet north-northeast of the Site.
- Elva's Daycare, located at 31-57 34th Street, Apartment 4B, approximately 845 feet east of the Site.
- Adventureland Child Care Center, located at 32-04 31st Avenue, approximately 1,000 feet northeast of the Site.

Figure 3 shows the surrounding land usage.

2.0 DESCRIPTION OF REMEDIAL INVESTIGATION FINDINGS

The Site was investigated in accordance with the scope of work presented in the NYSDEC-approved Remedial Investigation (RI) Work Plan dated March 2026. The investigation was conducted between April 27 and May 13, 2026. The RI was submitted to NYSDEC on July 24, 2026 and approved by NYSDEC on [insert date].

2.1 Summary of the Work Performed under the Remedial Investigation (RI)

The RI was conducted between April 27 and May 13, 2026 under a NYSDEC-approved Remedial Investigation Work Plan (RIWP) and included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 15 soil borings with collection and laboratory analysis of 80 soil samples.
3. The installation of 10 permanent, 2-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 10 groundwater samples.
4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.
5. The performance of a groundwater monitoring well elevation and location survey of the permanent monitoring wells.

The RI was based upon the results from Phase II investigations conducted by AKRF in 2022 and 2024; the results of those investigations were incorporated into the RI Report.

AKRF conducted a Phase II investigation at the Site between October 3 and 5, 2022 under a New York City Department of Environmental Protection (NYCDEP)-approved Phase II Work Plan and included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 7 soil borings with the collection and laboratory analysis of 14 soil samples.
3. The installation of 4 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 4 groundwater samples.
4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.

AKRF conducted a RI at the Site between December 11 and 13, 2024 under a New York City Mayor's Office of Environmental Remediation (NYCOER)-approved Phase II work plan and included the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.)
2. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
3. The advancement of 9 soil borings with the collection and laboratory analysis of 23 soil samples.

4. The installation of 3 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 3 groundwater samples.
5. The installation of 3 temporary soil vapor probes and the collection and laboratory analysis of 3 soil vapor samples.

2.2 Findings from Previous Investigations

2.2.1 Summary of Hydrogeological Findings

The following geologic and hydrogeologic conditions were noted during the RI:

1. Based on the May 2026 survey of the newly installed monitoring wells by Fehringer Surveying, PC, the Site lies at an elevation of 50.16 to 55.6 feet above the North American Vertical Datum of 1988 (NAVD88).
2. The stratigraphy of the Site, from the surface down, generally consisted of a surficial layer of asphalt, underlain by fill material comprised of sand, silt, brick, and gravel extending from grade to approximately 2 to 10 feet below grade during the 2026 RI. During previous investigations, fill material was encountered at depths ranging from just below surface grade down to approximately 5 to 14 feet below grade. The fill was underlain by native material comprised of sand, silt, and gravel to the boring terminus. Bedrock was encountered between 47 and 51 feet below grade in borings RI-SB-01, RI-SB-05, and RI-SB-08.
3. Groundwater beneath the Site ranges from elevation 18.82 to elevation 20.08 (NAVD88), or 29.91 to 36.12 feet below grade across the Site. Regional groundwater flows in a westerly direction toward the East River. Based on the site-specific well elevation survey, groundwater flows in a generally southwesterly direction beneath the Site.

2.2.2 Summary of Environmental Findings

Soil

2026 RI

- Volatile organic compounds (VOC) detections included acetone, ethylbenzene, m/p-xylene, o-xylene, tetrachloroethylene (PCE), and total xylenes at concentrations up to 3.8 milligrams per kilogram (mg/kg). PCE was detected at low levels in many samples but was detected above the NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCO) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) in one soil sample (RI-SB-11_4-6_20260428 at a concentration of 3.8 mg/kg). There were no VOC exceedances above the RRSCOs.
- Nine SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene were detected above the UUSCOs and/or RRSCOs in up to four soil samples at concentrations up to 6.9 mg/kg [benzo(a)pyrene in sample RI-SB-10_0-0.17_20260427]. SVOCs were detected at individual concentrations ranging from 0.0047 (acenaphthylene in RI-SB-05_2-4_20260501) to 12 mg/kg in (fluoranthene in RI-SB-10_0-0.17_20260427). Total SVOC concentrations ranged from non-detect to 39.34 mg/kg in sample RI-SB-11_4-6_20260428.

- Polychlorinated biphenyls (PCBs) were detected above laboratory reporting limits in sample SB-02_0-2_20221003 at a concentration of 0.63 mg/kg in PCB-1260 (Aroclor 1260) and PCB-1268 (Aroclor 1268) but below UUSCOs and RRSCOs. Pesticides were detected at individual concentrations ranging from 0.0029 (4.4'-DDE in RI-SB-08_0-2_20260501) to 0.013 mg/kg in (fluoranthene in RI-SB-10_0-0.17_20260427). The pesticide P,P'-DDT was detected above the UUSCO, but below the RRSCO in 10 soil samples.
- Copper, lead, mercury, and zinc were detected in soil samples across the Site above UUSCOs in shallow fill material down to 6 feet below grade. Lead was additionally detected above the RRSCO of 400 mg/kg in sample RI-SB-10_4-6_20260427 at a concentration of 4,660 mg/kg. Mercury was detected above the RRSCO of 0.3 mg/kg in sample RI-SB-02_0-0.17_20260429 at a concentration of 0.32 mg/kg. Metals were detected at individual concentrations ranging from 0.0067 (mercury in RI-SB-13_0-0.17_20260428) to 72,000 mg/kg in (calcium in RI-SB-08_0-0.17_20260501).
- Perfluorooctanesulfonic acid (PFOS) was detected above the NYSDEC unrestricted use guidance value of 0.88 parts per billion (ppb) in four samples with concentrations ranging from 1.02 ppb to 2.34 ppb. PFOS were detected at individual concentrations ranging from 0.098 ppb (RI-SB-08_0-2_20260501) to 2.34 ppb in (fluoranthene in RI-SB-10_0-0.17_20260427). Perfluorooctanoic acid (PFOA) was detected above the NYSDEC unrestricted use guidance value of 0.66 ppb in two samples, with concentrations up to 1.54 ppb. PFOA were detected at individual concentrations ranging from 0.06 ppb in RI-SB-10_0-0.17_20260427 to 1.54 ppb in RI-SB-10_6-8_20260427. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

<u>2022 and 2024 Phase II Investigations</u>

- VOC detections included 1,2,4-trimethylbenzene, acetone, PCE, toluene, and trichloroethylene (TCE) at concentrations up to 0.16 mg/kg. Acetone was detected above the UUSCO of 0.03 mg/kg in three samples. There were no exceedances of the RRSCOs or PGWSCOs.
- SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene were detected at concentrations up to 29 mg/kg, above the UUSCOs and/or RRSCOs [benzo(b)fluoranthene in sample SB-05_0-2_20221004].
- PCBs were not detected above the UUSCOs or RRSCOs. The pesticides cis-chlordane, P,P'-DDE, and P,P'-DDT were detected above the UUSCOs, but below the RRSCOs.
- Copper, lead, mercury, and zinc were detected in soil samples across the Site above their respective UUSCOs in shallow fill material down to 4 feet below grade. Mercury was detected above the RRSCO of 0.3 mg/kg in one sample (SB-04_0-2_20221003) at a concentration of 0.59 mg/kg.
- During the 2024 Phase II investigation, one soil sample was analyzed for PFAS (SB-08_0-2_20241213). PFOS was detected above the NYSDEC unrestricted use guidance value of 0.88 ppb at a concentration of 2.17 ppb. PFOA and 1,4-dioxane were not detected above laboratory reporting limits in the soil sample.

Groundwater

2026 RI

- VOCs acetone, chloroform, cis-1,2-dichloroethene, dichlorobromomethane, PCE, and/or TCE were detected in all 10 groundwater samples at concentrations ranging from 0.27 micrograms per liter (µg/L) to 860 µg/L (PCE in sample RI-MW-03_20260513). Chloroform, cis-1,2-dichloroethene, PCE, and/or TCE were detected above the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs) in all groundwater samples.
- SVOCs were not detected above laboratory reporting limits.
- PCBs and pesticides were not detected above laboratory reporting limits.
- In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for manganese and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for iron, manganese, and sodium, up to 169,000 µg/L.
- PCBs or pesticides were not detected above laboratory reporting limits in any of the groundwater samples.
- PFOS was detected above its NYSDEC guidance value of 2.7 parts per trillion (ppt) in all eight groundwater samples, and the blind duplicate. PFOA was detected above its NYSDEC guidance value of 6.7 ppt in in all eight groundwater samples, and the blind duplicate. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

2022 and 2024 Phase II Investigations

- VOCs acetone, benzene, bromodichloromethane, chloroform, cis-1,2-dichloroethene, dibromochloromethane, m,p-xylenes, methyl ethyl ketone, methylene chloride, PCE and/or TCE were detected in all seven groundwater samples at concentrations ranging from 0.3 µg/L to 330 µg/L (PCE in sample TW-04_20221004).
- Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, and indeno(1,2,3-c,d)pyrene were detected in sample TW-01_20221005 at concentrations above the AWQSGVs, up to 6.2 µg/L.
- PCBs and pesticides were not detected above laboratory reporting limits.
- In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for iron, magnesium, manganese, and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for arsenic, barium, beryllium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, sodium, thallium, and zinc up to 971,000 µg/L.
- PCBs or pesticides were not detected above laboratory reporting limits in any of the groundwater samples.
- The groundwater samples were not analyzed for PFAS. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

Soil Vapor

2026 RI

- Solvent-related VOCs (including bromodichloromethane, chloroform, chloromethane, cis-1,2-dichloroethene, methylene chloride, PCE, TCE, trans-1,2-dichloroethene, and trichlorofluoromethane) were detected in the soil vapor samples at individual concentrations up to 12,000 micrograms per cubic meter ($\mu g/m^3$) from a diluted analysis (PCE in sample SV-02_20210825).
- Petroleum-related VOCs [such as 1,2,4-trimethylbenzene, 1,3-butadiene, 2,2,4-trimethylpentane, 1,3-dichlorobenzene, 4-methyl-2-pentanone, carbon disulfide, cyclohexane, methyl butyl ketone, methyl ethyl ketone, n-butane, n-heptane, n-hexane, tert-butyl alcohol, benzene, toluene, ethylbenzene, and m,p- and-o-xylenes (collectively referred to as BTEX)], were detected in the soil vapor samples at individual concentrations up to 150 $\mu g/m^3$ from a diluted analysis (m,p-xylene in sample RI-SV-03_20260429).
- When compared to the New York State Department of Health (NYSDOH) Decision Matrices, cis-1,2-dichloroethene, PCE, and TCE were detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples RI-SV-02_20260429, RI-SV-03_20260429, and RI-SV-04_20260429.

2022 and 2024 Phase II Investigations

- Solvent-related VOCs, including carbon disulfide, chloroform, cis-1,2-dichloroethylene, PCE, and TCE were detected at concentrations up to 1,900 $\mu g/m^3$ (PCE in sample SV-04_20221003).
- Petroleum-related VOCs, including 1,3-butadiene, 2,2,4-trimethylpentane, benzene, butane, cyclohexane, methyl ethyl ketone, n-heptane, n-hexane, styrene, and toluene were detected at concentrations up to 66 $\mu g/m^3$ (butane in sample SV-07_20241213).
- When compared to the NYSDOH Decision Matrices, cis-1,2-dichloroethene was detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples SV-01_20221004, SV-02_20221003, and SV-03_20221004. PCE was detected above the lowest level requiring mitigation, regardless of indoor air concentration in sample SV-04_20221003.

2.3 Significant Threat

A significant threat determination to human health and the environment has not yet been made. Upon determination, notice will be provided for public review.

2.4 Site History

2.4.1 Past Uses and Ownership

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Site, specifically Sanborn Fire Insurance Maps in multiple years between 1898 and 2006. In 1898 and 1915, the Site was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Site. In 1936, the Site remained mostly unchanged except for the addition of a one-car garage to the east of the previously identified dwelling. The Site remained unchanged until 1979-1896, when the identified dwelling was no longer depicted on the Site, while the one-car garage remained. The western portion of the Site was

identified as parking. In 1988-1989 the Site was developed in its current configuration, as the one-car garage was no longer identified on the Site, and the entirety of the Site was labeled as parking.

Sanborn maps identified primarily residential and commercial historical uses, adjacent to the Site and surrounding area. Some of the pertinent commercial listings between circa 1936 and 2006 included a filling station, located approximately 315 feet north-northeast of the Site; a garage and auto repair shop with gasoline tanks, located approximately 370 feet northwest of the Site; a dry cleaner located approximately 200 feet northeast of the Site; and a machine shop and warehouse located approximately 445 feet southwest of the Site. A list of known previous property owners and operators is provided in Table A.

Table A
Previous Property Owners

Property Owners	Years of Ownership	Status of Entity (Alive, Deceased, Active, Inactive)	Current/Last Known Address/ Phone Number (if available)	Relationship to Requestor(s)
City of New York*	December 18, 1997– Present	Active	55 Water Street, 9th Floor New York, NY 10041 Phone: 212-839-2510	None
Frederick and James Tedeschi/ Yuma Corp.	1982 through 1997	Unknown Yuma Corp.- Inactive	30-98 Crescent Street Long Island City, NY 11102 Phone number: Unknown	None
Louise Tedeschi	Prior to 1982	Unknown	Unknown	None

**Based on a review of available online records, the City of New York acquired the Site through a Court Order/Eminent Domain.*

2.4.2 Previous Environmental Reports

Phase I Environmental Site Assessment – 31-07 31st Street, Astoria, NY, AKRF, Inc., June 2021

AKRF prepared a Phase I Environmental Site Assessment (ESA) for the Site in June 2021 in accordance with the requirements of American Society for Testing and Materials (ASTM) Standard E1527-13 (the applicable standard at that time). At the time of AKRF's assessment, the Site was occupied by a municipal parking lot with no structures. The Phase I ESA included a review of current and historical Sanborn Fire Insurance maps; state and federal environmental regulatory databases; local records; and reconnaissance of the Site and its surroundings. Based on the findings of the Phase I ESA, the following Recognized Environmental Conditions (RECs) and De Minimus conditions were identified:

- One groundwater monitoring well was observed on the 31st Street sidewalk west-adjacent of the Site.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry-cleaning uses in the surrounding area.

AKRF identified the following Business Environmental Risks (BERs) outside the scope of ASTM E1527-13:

- Buried demolition debris from former on-site structures could contain asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), and/or underground storage tanks.
- Three five-gallon containers of orphan waste were located on the southeastern-most corner of the Site. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked.

The 2022 and 2024 Phase II Investigation and 2026 RI are summarized in Section 2.1.

2.4.3 Sanborn Maps

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Site, specifically Sanborn Fire Insurance Maps in multiple years between 1898 and 2006. In 1898 and 1915, the Site was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Site. In 1936, the Site remained mostly unchanged except for the addition of a one-car garage to the east of the previously identified dwelling. The Site remained unchanged until 1979-1896, when the identified dwelling was no longer depicted on the Site, while the one-car garage remained. The western portion of the Site was identified as parking. In 1988-1989 the Site was developed in its current configuration, as the one-car garage was no longer identified on the Site, and the entirety of the Site was labeled as parking.

Sanborn maps identified primarily residential and commercial historical uses, adjacent to the Site and surrounding area. Some of the pertinent commercial listings between circa 1936 and 2006 included a filling station located north-northeast of the Site; a garage and auto repair shop with gasoline tanks located northwest of the Site; a dry cleaner located northeast of the Site; and a machine shop and warehouse located southwest of the Site. The Sanborn Maps are included in Appendix C.

2.5 Geologic and Hydrogeologic Conditions

The stratigraphy of the Site during the RI, from the surface down, generally consisted of a surficial layer of asphalt underlain by fill material comprised of sand, silt, and gravel with varying amounts of brick, concrete, and asphalt extending from grade to approximately 2 to 10 feet below grade. Fill materials observed in the November 2024 Phase II Investigation were observed extending to 3 to 11 feet below grade. The fill material was underlain by varying amounts of apparent native sand, silt, and gravel to boring termination depths (up to 51 feet below grade). Bedrock was encountered at depths ranging from approximately 47 to 51 feet below grade in borings RI-SB-01, RI-SB-05, and RI-SB-08.

During the RI, groundwater elevation ranged from 18.82 to elevation 20.3 (NAVD88), or approximately 29.91 to 36.12 feet below grade surface across the Site. Based on site-specific survey data, groundwater beneath the Site flows in a southwesterly direction. Regional groundwater flow is generally in a westerly direction, toward the East River, located approximately 1 mile west of the Site. Groundwater elevation data is presented in Table 1. Geologic sections are shown on Figures 4A and 4B. A groundwater flow map is shown on Figure 5.

2.6 Contamination Conditions

The data compiled during the RI and previous investigations was compared to the following Standards, Criteria, and Guidance (SCGs) to determine the nature and extent of the contamination area associated with the Site:

- **Soil** – NYSDEC Part 375 UUSCOs, RRSCOs, CVOCs above the PGWSCOs and the NYSDEC April 2023 guidance values for PFAS Compounds;
- **Groundwater** – NYSDEC Class GA AWQSGVs – TOGS 1.1.1, NYSDEC guidance values for human health for PFOS, PFOA, and 1,4-dioxane; and
- **Soil Vapor** – There are currently no regulatory or published guidance values for soil vapor; soil vapor data was used to assess the potential for exposure to receptors and to help define the nature and extent of contamination at the Site.

2.6.1 Conceptual Model of Site Contamination

Based on an evaluation of the data and information in this RIR, the Site is contaminated with: VOCs, SVOCs, pesticides, metals, PFOA, and PFOS in soil; VOCs, metals, PFOA, and PFOS in groundwater; and solvent- and petroleum-related VOCs in soil vapor. The elevated concentrations of SVOCs, pesticides, metals, PFOA, and PFOS in soil are likely related to the presence of shallow fill material. Chlorinated solvents (PCE, cis-1,2-dichloroethene, and chloroform) in soil, groundwater and soil vapor indicate the possible presence of an on-site release. Solvent-related and petroleum-related VOCs were detected at varying concentrations in the soil vapor samples collected from the Site.

Exceedances in soil were generally found in the shallow fill layer, with elevated concentrations of benzo(g,h,i)perylene extending to the groundwater table in one boring, SB-05 from 29 to 31 feet bgs, in the eastern portion of the Site. PCE was detected in soil above regulatory limits in one sample from 4 to 6 feet bgs (RI-SB-11) in the eastern portion of the Site. PCE was detected in soil samples at trace concentrations throughout the remainder of the Site. PCE was detected above its AQWSGV in all groundwater samples collected during the 2022 and 2024 Phase II investigations and the 2026 RI with the highest concentration (860 µg/L) in groundwater monitoring well RI-MW-03, located in the northeastern portion of the Site, approximately 50 feet from RI-SB-11. The PFOA/PFOS exceedances in groundwater were generally detected site-wide. PCE was detected in soil vapor site-wide with the greatest concentration (12,000 $\mu g/m^3$) in temporary soil vapor point RI-SV-03, located in the northern portion of the Site approximately 50 feet from RI-SB-11 and approximately 65 feet from RI-MW-03. Elevated concentrations of other chlorinated solvent-related and petroleum VOCs in soil vapor were detected site-wide. Based on the proximity of the elevated soil vapor concentrations to the boundaries of adjacent properties, the potential for off-site migration of soil vapor exists.

2.6.2 Description of Areas of Concern

The following environmental issues, discussed in Section 2.4, were considered areas of concern (AOCs) for the RI:

- Historic commercial, industrial, and automotive uses in the surrounding area, including a filling station, a garage and auto repair shop with gasoline tanks, a dry cleaner, and a machine shop and warehouse;
- Polyaromatic hydrocarbons (PAHs) in soil; and
- Elevated concentrations of solvent-related compounds in soil vapor and groundwater.

2.6.3 Identification of Standards, Criteria and Guidance

The following remedial SCGs apply to the project and are the performance criteria used to determine whether the Remedial Action Objectives (RAOs) have been met:

- Soil – 6 New York Codes, Rules and Regulations (NYCRR) Part 375 – UUSCOs and RRSCOs (December 2025); 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes; 6 NYCRR Part 376 - Land Disposal Restrictions; 6 NYCRR Part 360 - Solid Waste Management Facilities; and Analysis and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs (issued in April 2023).
- Groundwater – 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998); TOGS 1.1.1 AWQSGV; Groundwater Effluent Limitations; and NYSDEC April 2023 PFAS Guidance Values.

In addition, the following SCGs are applicable to the remedial program at the Site:

- NYSDEC DER-10 – Technical Guidance for Site Investigation and Remediation (May 2010);
- NYSDEC Draft Brownfield Cleanup Program Guide (May 2004);
- NYSDOH Generic Community Air Monitoring Plan;
- NYSDEC DER-23 – Citizens Participation Handbook for Remedial Programs (January 2010);
- 6 NYCRR Part 372 – Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998);
- 6 NYCRR Subpart 374-1 – Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities (November 1998);
- 6 NYCRR Subpart 374-3 – Standards for Universal Waste (November 1998);
- 6 NYCRR Part 375 – Environmental Remediation Programs (December 2025);
- 6 NYCRR Part 612 – Registration of Petroleum Storage Facilities (February 1992);
- 6 NYCRR Part 613 – Handling and Storage of Petroleum (February 1992);
- 6 NYCRR Part 614 – Standards for New and Substantially Modified Petroleum Storage Tanks (February 1992);
- 40 Code of Federal Regulations (CFR) Part 280 – Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks;
- 29 CFR Part 1910.120 – Hazardous Waste Operations and Emergency Response;
- 40 CFR Part 144 – Underground Injection Control Program;
- NYSDEC Sampling, Analysis, and Assessment of PFAS (April 2023);
- NYSDEC DER-31 – Green Remediation (January 2011);
- NYSDOH – Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, including the updates).

Additional regulations and guidance may be applicable, relevant, and appropriate to the remedial alternatives and will be complied with during implementation of the remedial program. However, the list above is intended to represent the principal SCGs that should be considered in evaluating the remedial alternatives for the Site. SCGs for the Site are provided in Appendix D.

2.6.4 Soil/Fill Contamination

2.6.4.1 Summary of Soil/Fill Data

Based on previous investigations, fill/soil beneath the Site contains elevated concentrations of VOCs, SVOCs, pesticides, metals, PFOA, and PFOS. PCE was detected in shallow soil above the PGWSCO, but below the RRSCO in one soil sample (RI-SB-11_4-6_20260428). SVOCs were detected at elevated levels in shallow soil down to 6 feet below grade, except for benzo(g,h,i)perylene in one sample collected at 29-31 feet below grade. Metals were detected primarily in shallow samples throughout the Site at elevated concentrations, but were detected in deeper samples at lower concentrations. PFAS was detected across the Site at variable concentrations down to approximately 32 feet below grade, the deepest sample interval collected for laboratory analysis.

2.6.4.2 Comparison of Soil/Fill with SCGs

Soil/fill sample concentrations above UUSCOs, PGWSCOs (CVOCs only), RRSCOs, and PFAS Guidance Values are summarized below in Tables B and C. All soil laboratory results are presented in Tables 2 through 7. Exceedances of the applicable standards are shown on Figures 6A through 6K.

Table B
Comparison of Soil Samples with SCGs

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	PGWSCO (mg/kg)	Result (mg/kg)
Acetone	RI-SB-08_0-2_20260501	**0.03**	100	N/A	**0.048**
	SB-01_31-33_20221005				**0.16**
	SB-05_29-31_20221004				**0.14**
	SB-07_32-34_20221003				**0.031**
Tetrachloroethylene (PCE)	RI-SB-11_4-6_20260428	**1.3**	18	1.3	**3.8**
Benzo(a)Anthracene	RI-SB-07_0-0.17_20260428	1	1.4	N/A	**1.1**
	RI-SB-10_0-0.17_20260427				**5.2**
	RI-SB-11_4-6_20260428				**5.1**
	SB-01_0-2_20221005				**6.5**
	SB-05_0-2_20221004				**25 D**
	SB-13_0-2_20241211				**2.5**
	SB-14_0-2_20241211				**1.9**
	SB-14_2-4_20241211				**2.8**
	SB-15_2-4_20241211				**1.7**
Benzo(a)Pyrene	RI-SB-10_0-0.17_20260427	1	1	N/A	**4.9**
	RI-SB-11_4-6_20260428				**4.4**
	SB-01_0-2_20221005				**5.3**
	SB-05_0-2_20221004				**23 D**
	SB-13_0-2_20241211				**2.2**
	SB-14_0-2_20241211				**1.6**
	SB-14_2-4_20241211				**2.7**
	SB-15_2-4_20241211				**1.8**

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	PGWSCO (mg/kg)	Result (mg/kg)
Benzo(b)Fluoranthene	RI-SB-07_0-0.17_20260428	1	1.4	N/A	**1.5**
	RI-SB-10_0-0.17_20260427				**6.9**
	RI-SB-11_4-6_20260428				**5.7**
	SB-01_0-2_20221005				**7.1**
	SB-05_0-2_20221004				**29 D**
	SB-11_2-4_20241212				**1.1**
	SB-13_0-2_20241211				**2.9**
	SB-14_0-2_20241211				**2.2**
	SB-14_2-4_20241211				**3.8**
	SB-15_2-4_20241211				**2.5**
Benzo(g,h,i)Perylene	RI-SB-10_0-0.17_20260427	0.64	4.9	N/A	**2.6**
	RI-SB-11_4-6_20260428				**2.6**
	SB-01_0-2_20221005				**3.3**
	SB-05_0-2_20221004				**7.5**
	SB-05_29-31_20221004				**1.3**
	SB-13_0-2_20241211				**1.2**
	SB-14_0-2_20241211				**0.69**
	SB-14_2-4_20241211				**1.3**
	SB-15_2-4_20241211				**0.96**
Benzo(k)Fluoranthene	RI-SB-10_0-0.17_20260427	0.8	4.9	N/A	**2.4**
	RI-SB-11_4-6_20260428				**2**
	SB-01_0-2_20221005				**2.3**
	SB-05_0-2_20221004				**7.6**
	SB-13_0-2_20241211				**1.1**
	SB-14_0-2_20241211				**0.82**
	SB-14_2-4_20241211				**1.4**
	SB-15_2-4_20241211				**0.94**
Chrysene	RI-SB-10_0-0.17_20260427	1	4.9	N/A	**5.1**
	RI-SB-11_4-6_20260428				**5.3**
	SB-01_0-2_20221005				**6**
	SB-05_0-2_20221004				**23 D**
	SB-13_0-2_20241211				**2.4**
	SB-14_0-2_20241211				**1.8**
	SB-14_2-4_20241211				**2.8**
	SB-15_2-4_20241211				**1.7**
Dibenz(a,h)Anthracene	RI-SB-05_0-2_20260501	0.33	0.33	N/A	**0.37**
	RI-SB-10_0-0.17_20260427				**0.64 JL**
	RI-SB-11_4-6_20260428				**0.76**
	SB-01_0-2_20221005				**0.95**
	SB-05_0-2_20221004				**2.7**

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	PGWSCO (mg/kg)	Result (mg/kg)
Indeno(1,2,3-c,d)Pyrene	RI-SB-10_0-0.17_20260427	0.5	1.4	N/A	**2.9**
	RI-SB-11_4-6_20260428				**3**
	SB-01_0-2_20221005				**4.2**
	SB-05_0-2_20221004				**17 D**
	SB-05_29-31_20221004				**1.2**
	SB-13_0-2_20241211				**1.2**
	SB-14_0-2_20241211				**0.77**
	SB-14_2-4_20241211				**1.4**
	SB-15_2-4_20241211				**1.1**
Phenanthrene	RI-SB-08_2-4_20260501	1.1	4.9	N/A	**1.8**
	RI-SB-10_0-0.17_20260427				**6.6**
	RI-SB-11_4-6_20260428				**6.5**
	SB-01_0-2_20221005				**16 D**
	SB-05_0-2_20221004				**27 D**
	SB-11_2-4_20241212				**1.6**
	SB-13_0-2_20241211				**4.3**
	SB-14_0-2_20241211				**4.1**
	SB-14_2-4_20241211				**4.6**
	SB-15_2-4_20241211				**2**
Copper	RI-SB-02_0-0.17_20260429	50	280	N/A	**78.7**
	RI-SB-03_0-2_20260427				**64.7**
	RI-SB-10_0-0.17_20260427				**52.8**
	RI-SB-10_4-6_20260427				**68.7**
	RI-SB-11_4-6_20260428				**106**
	RI-SB-15_2-4_20260429				**56.7**
	SB-04_2-4_20241211				**50.5**
	SB-05_0-2_20221004				**63.1**
	SB-08_2-4_20241213				**62.3**
	SB-11_2-4_20241212				**52.8**
Lead	RI-SB-02_0-0.17_20260429	63	400	N/A	**216**
	RI-SB-03_0-0.17_20260427				**127**
	RI-SB-03_0-2_20260427				**132**
	RI-SB-04_2-4_20260427				**369**
	RI-SB-07_0-2_20260428				**129**
	RI-SB-08_0-2_20260501				**85.6**
	RI-SB-08_2-4_20260501				**154**
	RI-SB-10_0-0.17_20260427				**221**
	RI-SB-10_4-6_20260427				**4,660**
	RI-SB-11_4-6_20260428				**298**
	RI-SB-14_2-4_20260429				**160**
	SB-03_0-2_20221003				**81.7**
	SB-04_0-2_20221003				**80**
	SB-04_2-4_20241211				**237**
	SB-05_0-2_20221004				**283**
	SB-07_0-2_20221003				**131**

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	PGWSCO (mg/kg)	Result (mg/kg)
Lead (continued)	SB-10_0-2_20241212	63	400	N/A	**379**
	SB-11_2-4_20241212				**94.5**
	SB-12_0-2_20241211				**109**
	SB-14_0-2_20241211				**72**
	SB-14_2-4_20241211				**131**
	SB-15_2-4_20241211				**90**
Mercury	RI-SB-02_0-0.17_20260429	0.18	0.3	N/A	**0.32**
	RI-SB-10_0-0.17_20260427				**0.29**
	RI-SB-10_4-6_20260427				**0.19**
	RI-SB-11_4-6_20260428				**0.25**
	RI-SB-14_2-4_20260429				**0.25**
	SB-04_0-2_20221003				**0.59**
	SB-13_0-2_20241211				**0.27**
Zinc	RI-SB-02_0-0.17_20260429	109	6,600	N/A	**550**
	RI-SB-03_0-2_20260427				**114**
	RI-SB-04_2-4_20260427				**215**
	RI-SB-10_0-0.17_20260427				**270**
	RI-SB-10_4-6_20260427				**162**
	RI-SB-11_4-6_20260428				**253**
	RI-SB-14_2-4_20260429				**142**
	SB-04_2-4_20241211				**173**
	SB-05_0-2_20221004				**149**
	SB-11_2-4_20241212				**136**
	SB-15_2-4_20241211				**126**
Chlordane, cis-	SB-08_0-2_20241213	0.014	0.65	N/A	**0.021**
P,P'-DDE	SB-08_0-2_20241213	0.0033	3.4	N/A	**0.0036 J**
P,P'-DDT	RI-SB-04_2-4_20260427	0.0033	3.8	N/A	**0.0039**
	RI-SB-04_15-17_20260428				**0.011 J**
	RI-SB-05_0-0.17_20260501				**0.005**
	RI-SB-08_0-2_20260501				**0.013**
	RI-SB-08_2-4_20260501				**0.0091**
	RI-SB-10_0-0.17_20260427				**0.0037**
	RI-SB-10_4-6_20260427				**0.0057**
	RI-SB-11_0-0.17_20260428				**0.004 J**
	RI-SB-11_0-2_20260428				**0.0037**
	RI-SB-12_0-0.17_20260428				**0.0066**
	SB-05_0-2_20221004				**0.0063 J**
	SB-08_0-2_20241213				**0.0084**

Notes:
D = Indicates an identified compound in an analysis that has been diluted.
J = The concentration given is an estimated value.
L = Sample result is estimated and biased low.
mg/kg = milligrams per kilogram
Exceedances of UUSCOs are bolded.
Exceedances of RRSCOs are shaded gray.
Exceedances of PGWSCOs are underlined.

Table C
Comparison of Soil PFAS Samples with SCGs

Compound	Sample ID	UUGV (ppb)	RRGV (ppb)	Result (ppb)
Perfluorooctanesulfonic acid (PFOS)	RI-SB-10_4-6_20260427	0.88	44	**1.57**
	RI-SB-10_6-8_20260427			**2.34**
	RI-SB-11_2-4_20260428			**1.02**
	RI-SB-11_4-6_20260428			**1.63**
	SB-08_0-2_20241213			**2.17 J**
Perfluorooctanoic acid (PFOA)	RI-SB-10_6-8_20260427	0.66	33	**1.54**
	RI-SB-10_8-10_20260427			**1.04**

Notes:
J = The concentration given is an estimated value.
ppb = parts per billion
Exceedances of UUGVs are bolded.
Exceedances of RRGVs are shaded gray.

2.6.4.3 Summary of Groundwater Data

Groundwater beneath the Site contains elevated levels of VOCs, metals, PFOA, and PFOS. Solvent-related VOCs, including cis-1,2-dichloroethene, PCE, and TCE were detected at elevated concentrations in groundwater samples collected across the Site. with the highest concentration (860 µg/L) in groundwater monitoring well RI-MW-03, located in the northeastern portion of the Sit.e Metals detections are likely naturally occurring and related to regional groundwater conditions. The presence of PFAS in groundwater is likely the result of regional groundwater conditions.

2.6.4.4 Comparison of Groundwater with SCGs

Groundwater sample concentrations above the AWQSGVs are summarized below in Table D. All groundwater results are presented in Tables 8 through 14. Groundwater sample exceedances above the applicable standards are presented on Figures 7A through 7F.

Table D
Comparison of Groundwater Samples with SCGs

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Chloroform	RI-MW-01D_20260520	7	8.1
	RI-MW-03_20260513		18
	RI-MW-05S_20260520		23
	RI-MW-06_20260513		9.8
	RI-MW-X_20260513		9.2
	TW-04_20221004		9.2
Cis-1,2-Dichloroethylene	RI-MW-02_20260513	5	14
	RI-MW-03_20260513		55
	RI-MW-04_20260513		7
	RI-MW-05S_20260520		7.2
	RI-MW-06_20260513		53

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Cis-1,2-Dichloroethylene (continued)	RI-MW-X_20260513	5	52
	RI-MW-07_20260513		6.8
	TW-01_20221005		14
	TW-02_20221003		6.7
Tetrachloroethylene (PCE)	RI-MW-01D_20260520	5	22
	RI-MW-01S_20260520		43
	RI-MW-02_20260513		350
	RI-MW-03_20260513		860
	RI-MW-04_20260513		600
	RI-MW-05D_20260520		12
	RI-MW-05S_20260520		120
	RI-MW-06_20260513		480
	RI-MW-X_20260513		480
	RI-MW-07_20260513		160
	RI-MW-08S_20260520		15
	TW-01_20221005		100
	TW-02_20221003		19
	TW-03_20221004		100
	TW-04_20221004		330
	TW-08_20241213		60
	TW-09_20241213		270
	TW-10_20241213		310
Trichloroethylene (TCE)	RI-MW-03_20260513	5	49
	RI-MW-06_20260513		12
	RI-MW-X_20260513		12
Benzo(a)Anthracene	TW-01_20221005	0.002	2.1
Benzo(a)Pyrene	TW-01_20221005	ND	1.6
Benzo(b)Fluoranthene	TW-01_20221005	0.002	2.2
Bis(2-Ethylhexyl) Phthalate	TW-01_20221005	5	6.2
Chrysene	TW-01_20221005	0.002	2
Indeno(1,2,3-c,d)Pyrene	TW-01_20221005	0.002	1.6 J
Arsenic, Total	TW-01_20221005	25	63.9
	TW-09_20241213		73.3
	TW-10_20241213		28.6
Barium, Total	TW-01_20221005	1,000	3,540
	TW-08_20241213		1,620
	TW-09_20241213		4,580
	TW-10_20241213		1,700
Beryllium, Total	TW-01_20221005	3	14.2
	TW-08_20241213		4.6
	TW-09_20241213		14
	TW-10_20241213		6.6

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Chromium, Total	TW-01_20221005	50	3,390
	TW-08_20241213		303
	TW-09_20241213		1,350
	TW-10_20241213		429
Copper, Total	TW-01_20221005	200	1,340
	TW-08_20241213		319
	TW-09_20241213		1,000
	TW-10_20241213		419
Iron, Total	RI-MW-04_20260513	300	839
	RI-MW-07_20260513		1,670
	RI-MW-08S_20260520		393
	TW-01_20221005		971,000
	TW-03_20221004		1,660
	TW-04_20221004		4,430
	TW-08_20241213		185,000
	TW-09_20241213		667,000
	TW-10_20241213		292,000
Lead, Total	TW-01_20221005	25	857
	TW-08_20241213		88.4
	TW-09_20241213		707
	TW-10_20241213		113
Magnesium, Total	RI-MW-01S_20260520	35,000	40,100
	RI-MW-08S_20260520		43,000
	TW-01_20221005		355,000
	TW-03_20221004		47,500
	TW-08_20241213		164,000
	TW-09_20241213		370,000
	TW-10_20241213		295,000
Manganese, Total	RI-MW-05S_20260520	300	408
	TW-01_20221005		24,600
	TW-02_20221003		439
	TW-04_20221004		1,090
	TW-08_20241213		9,530
	TW-09_20241213		18,400
	TW-10_20241213		7,990
Mercury, Total	TW-01_20221005	0.7	1.7
	TW-09_20241213		1.1
Nickel, Total	TW-01_20221005	100	922
	TW-08_20241213		270
	TW-09_20241213		814
	TW-10_20241213		303

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Sodium, Total	RI-MW-01S_20260520	20,000	123,000
	RI-MW-02_20260513		151,000
	RI-MW-03_20260513		32,800
	RI-MW-04_20260513		165,000
	RI-MW-05S_20260520		103,000
	RI-MW-06_20260513		147,000
	RI-MW-X_20260513		158,000
	RI-MW-07_20260513		169,000
	RI-MW-08S_20260520		106,000
	TW-01_20221005		74,600
	TW-02_20221003		140,000
	TW-03_20221004		128,000
	TW-04_20221004		109,000
	TW-08_20241213		82,900
	TW-09_20241213		122,000
	TW-10_20241213		123,000
Thallium, Total	TW-01_20221005	0.5	5.1
	TW-08_20241213		0.61 J
	TW-09_20241213		1.6
	TW-10_20241213		0.75 J
Zinc, Total	TW-01_20221005	2,000	2,640
	TW-09_20241213		2,040
Iron, Dissolved	TW-03_20221004	300	492
	TW-04_20221004		1,630
Magnesium, Dissolved	RI-MW-01S_20260520	35,000	38,700
	RI-MW-08S_20260520		41,400
	TW-03_20221004		45,900
Manganese, Dissolved	RI-MW-05S_20260520	300	418
	TW-02_20221003		450
	TW-04_20221004		1,020
	TW-09_20241213		412
Sodium, Dissolved	RI-MW-01S_20260520	20,000	119,000
	RI-MW-02_20260513		150,000
	RI-MW-03_20260513		31,700
	RI-MW-04_20260513		160,000
	RI-MW-05S_20260520		103,000
	RI-MW-06_20260513		158,000
	RI-MW-X_20260513		168,000
	RI-MW-07_20260513		164,000
	RI-MW-08S_20260520		99,700
	TW-01_20221005		35,300
	TW-02_20221003		141,000
	TW-03_20221004		127,000
	TW-04_20221004		107,000
	TW-08_20241213		87,500
	TW-09_20241213		134,000
	TW-10_20241213		97,700

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
PFOS (ppt)	RI-MW-01S_20260520	2.7	11.3
	RI-MW-02_20260513		14
	RI-MW-03_20260513		13.4
	RI-MW-04_20260513		13.5
	RI-MW-05S_20260520		11.8
	RI-MW-06_20260513		5.75 J
	RI-MW-X_20260513		10.5 J
	RI-MW-07_20260513		7.29
	RI-MW-08S_20260520		8.28
PFOA (ppt)	RI-MW-01S_20260520	6.7	36.8
	RI-MW-02_20260513		40.7
	RI-MW-03_20260513		23
	RI-MW-04_20260513		39.9
	RI-MW-05S_20260520		24
	RI-MW-06_20260513		24.8 J
	RI-MW-X_20260513		43.9 J
	RI-MW-07_20260513		33.7
	RI-MW-08S_20260520		32.3

Notes:
J = The concentration given is an estimated value.
ND = The standard is a non-detectable concentration by the approved analytical method.
µg/L = micrograms per liter
ppt = parts per trillion
RI-MW-X_20260513 is a blind duplicate of sample RI-MW-06_20260513.

2.6.5 On-Site Soil Vapor Contamination

Solvent-related VOCs (including bromodichloromethane, carbon disulfide, chloroform, chloromethane, cis-1,2-dichloroethene, methylene chloride, PCE, TCE, trans-1,2-dichloroethene, and trichlorofluoromethane) were detected in the soil vapor samples at individual concentrations up to 12,000 µg/m3 from a diluted analysis (PCE in sample SV-02_20210825).

Other VOCs, including compounds typically associated with petroleum [such as 1,2,4-trimethylbenzene, 1,3-butadiene, 2,2,4-trimethylpentane, 1,3-dichlorobenzene, 4-methyl-2-pentanone, carbon disulfide, cyclohexane, methyl butyl ketone, methyl ethyl ketone, n-butane, n-heptane, n-hexane, tert-butyl alcohol, benzene, toluene, ethylbenzene, and m,p- and-o-xylenes (collectively referred to as BTEX)], were detected in the soil vapor samples at individual concentrations up to 150 µg/m3 from a diluted analysis (m,p-xylene in sample RI-SV-03_20260429).

When compared to the NYSDOH Decision Matrices, cis-1,2-dichloroethene, PCE, and/or TCE were detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples SV-01_20221004, SV-02_20221003, SV-03_20221004, SV-04_20221003, RI-SV-02_20260429, RI-SV-03_20260429, and RI-SV-04_20260429. Soil vapor sample concentrations above the soil vapor Matrix Values are summarized below in Table E.

Table E
Comparison of Soil Vapor Samples with NYSDOH Matrices

Compound	Sample ID	NYSDOH SV Matrix Value (µg/m³)	Result (µg/m³)
Cis-1,2-Dichloroethylene	RI-SV-02_20260429	60	970
	RI-SV-03_20260429		2,500
	RI-SV-04_20260429		270
	SV-01_20221004		200 D
	SV-02_20221003		110
	SV-03_20221004		96
Tetrachloroethylene (PCE)	RI-SV-02_20260429	1,000	3,200 D
	RI-SV-03_20260429		12,000
	RI-SV-04_20260429		7,200 D
	SV-04_20221003		1,900 D
Trichloroethylene (TCE)	RI-SV-02_20260429	60	160
	RI-SV-03_20260429		590
	RI-SV-04_20260429		240

Notes:
D = Indicates an identified compound in an analysis that has been diluted.
µg/m³ = micrograms per cubic meter

Soil vapor sample detections are shown on Figures 8A and 8B. Soil vapor analytical results are summarized in Table 15.

2.7 Environmental and Public Health Assessments

2.7.1 Qualitative Human Health Exposure Assessment

The objective of the Qualitative Human Health Exposure Assessment (QHHEA) is to identify potential receptors and pathways for human exposure to the COCs that are present at, or migrating from, the Site. The identification of exposure pathways describes the route that the COC takes to travel from the source within different environmental media to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur.

The findings of the RI, as described in the RIR, are sufficient to complete a QHHEA. The QHHEA was performed to determine whether the Site poses an existing or future health hazard to the Site's exposed or potentially exposed population. The sampling data were evaluated to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This QHHEA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation. The full QHHEA, which describes the environmental media, contaminants of concern, potential routes of exposure, potential receptors, and existence of human health exposure pathways, is included in Section 6.0 of the RIR, which is provided in Appendix E.

In summary, the Site currently consists of an asphalt-paved parking lot and is not developed with any permanent structures. The entirety of the Site is capped with asphalt pavement, which is in good to fair condition. Groundwater is not used for drinking or other potable purposes in Queens. The Site is served by a public water supply that is not affected by Site

contamination. Additionally, with no site occupants, inhalation of contaminants via soil vapor intrusion is not currently a concern. Once redevelopment activities begin, there will be a potential exposure pathway from contaminated surface soil/fill to construction workers, as these workers could potentially ingest, inhale, or have dermal contact with any exposed contaminated fill or soil; however, this will be mitigated with proper implementation of a CAMP that will prevent migration of particulates and VOCs, and a HASP that will dictate safe practices including the wearing of personal protective equipment. If future redevelopment plans require dewatering, there will be an additional potential exposure pathway as workers could potentially ingest or have dermal contact with the contaminated groundwater. However, extensive dewatering is not anticipated based on the proposed remedial actions. Without remediation, once redevelopment of the Site has been completed, there could be a potential exposure pathway from the potential off-gassing of residual organic vapors in the soil and/or groundwater through cracks or openings in the foundations. All potential exposure pathways in the future condition will be prevented through implementation of this RAWP.

2.7.2 Fish and Wildlife Remedial Impact Analysis

The Site was assessed against the FWRIA Decision Key located within DER-10, Appendix 3C to determine if an FWRIA was required. It was determined that a FWRIA was not required because no water sources or habitats are being impacted by the Site.

2.8 Remedial Action Objectives

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) have been identified for this Site.

2.8.1 Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore groundwater aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Remove the source of ground water contamination.

2.8.2 Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.8.3 Soil Vapor

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

3.0 WASTE CHARACTERIZATION

All work in this section will include implementation of the QAPP, provided in Appendix F, and the site-specific HASP and CAMP, provided in Appendix G and Appendix H, respectively, which include on-site and community air monitoring procedures.

3.1 Soil Waste Characterization Sampling

It is estimated that approximately 6,317 cubic yards or 9,475 tons of soil/fill will be excavated for remedial purposes. All soil/fill will be disposed of at a facility(ies) licensed to accept such material. Soil pre-characterization sampling will be conducted to characterize the soil for acceptance at properly permitted disposal facilities. The proposed testing will include sampling and laboratory analyses intended to satisfy the analytical requirements of numerous soil disposal/receiving facilities in New Jersey, New York, and Pennsylvania. Typical facilities require one sample per 600-800 cubic yards of material, consisting of a grab and five-point composite, collected from test pits or borings advanced to varying depths across the Site to characterize the material in place prior to the start of excavation.

In accordance with the typical requirements of disposal facilities permitted to receive fill/soil, the grab soil samples will be analyzed for VOCs plus 10 tentatively identified compounds (TICs) by EPA Method 8260 and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) by EPA method 8015D. The five-point composite samples will be analyzed, at a minimum, for SVOCs plus 20 TICs by EPA Method 8270D, diesel range organics (DRO) by EPA Method 8015D, pesticides by EPA Method 8081B, PCBs by EPA Method 8082A, herbicides by EPA 8151A, TAL metals by EPA Methods 6010D and 7471B, trivalent chromium by EPA Method 7196A, hexavalent chromium by EPA Method 7196A, RCRA list of TCLP metals plus copper, nickel, and zinc by EPA Methods 6010D and 7470, New Jersey Extractable Petroleum Hydrocarbons (EPH) non-fractionated by Method NJDEP EPH, total cyanide by EPA Method 9012B, ignitability, corrosivity, and reactivity, and paint filter by EPA Method 9095B (one sample only).

Depending on the acceptance criteria of potential disposal facilities at the time of the excavation, these tests may be modified. Additionally, it is possible that once a specific facility is selected, additional testing and/or laboratory analysis may become necessary.

3.2 Soil Waste Characterization Report

A report will be prepared following completion of the waste characterization sampling event and receipt of the laboratory data. The report will be presented to potential disposal facilities and will include a summary of the Site's environmental history and the sampling methodologies, a sample location map, and copies of the analytical results. Disposal facility acceptance letters will be provided to NYSDEC prior to the start of excavation. A copy of the Soil Pre-characterization Report will be included in the Final Engineering Report (FER).

4.0 DESCRIPTION OF REMEDIAL ACTION PLAN

4.1 Evaluation of Remedial Alternatives

This section includes a review of remediation alternatives that were considered for the remedy phase of the BCP. The purpose of completing the alternatives analysis is to identify, evaluate, and select a remedy to address the contamination identified, in accordance with the remedy selection criteria set forth in 6 NYCRR § 375-1.8(f) and the alternatives analysis requirements of 6 NYCRR § 375-3.8(f). The RAOs for soil and groundwater include source removal and treatment necessary to prevent the potential for exposure and contaminant migration. The RAOs for soil vapor include preventing soil vapor from entering the proposed new Site building and preventing off-site migration, as required by 6 NYCRR § 375-6.7(a)(3). The following performance measures, consistent with the nine remedy selection factors set forth in 6 NYCRR § 375-1.8(f), were used to complete the evaluation of remedial alternatives:

- Protection of human health and the environment;
- Compliance with standards, criteria, and guidelines (SCGs);
- Short-term effectiveness and impacts;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume of contaminated material;
- Implementability;
- Cost effectiveness;
- Community Acceptance; and
- Land use.

The following remedial SCGs apply to the project and are the performance criteria used to determine if the RAOs have been met.

- Soil – 6 New York Codes, Rules and Regulations (NYCRR) Part 375 – UUSCOs and RRSCOs (December 2025); 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes; 6 NYCRR Part 376 - Land Disposal Restrictions; 6 NYCRR Part 360 - Solid Waste Management Facilities; and Analysis and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs (issued in April 2023).
- Groundwater – 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998); TOGS 1.1.1 AWQSGV; Groundwater Effluent Limitations; and NYSDEC April 2023 PFAS Guidance Values.

In addition, the following SCGs are applicable to the remedial program at the Site:

- NYSDEC DER-10 – Technical Guidance for Site Investigation and Remediation (May 2010);
- NYSDEC Draft Brownfield Cleanup Program Guide (May 2004);
- NYSDOH Generic Community Air Monitoring Plan;
- NYSDEC DER-23 – Citizens Participation Handbook for Remedial Programs (January 2010);
- 6 NYCRR Part 372 – Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998);

- 6 NYCRR Subpart 374-1 – Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities (November 1998);
- 6 NYCRR Subpart 374-3 – Standards for Universal Waste (November 1998);
- 6 NYCRR Part 375 – Environmental Remediation Programs (December 2025);
- 6 NYCRR Part 612 – Registration of Petroleum Storage Facilities (February 1992);
- 6 NYCRR Part 613 – Handling and Storage of Petroleum (February 1992);
- 6 NYCRR Part 614 – Standards for New and Substantially Modified Petroleum Storage Tanks (February 1992);
- 40 Code of Federal Regulations (CFR) Part 280 – Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks;
- 29 CFR Part 1910.120 – Hazardous Waste Operations and Emergency Response;
- 40 CFR Part 144 – Underground Injection Control Program;
- NYSDEC Sampling, Analysis, and Assessment of PFAS (April 2023);
- NYSDEC DER-31 – Green Remediation (January 2011);
- NYSDOH – Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, including the updates).

Additional regulations and guidance may be applicable, relevant, and appropriate to the remedial alternatives and will be complied in connection with implementation of the remedial program. However, the list above is intended to represent the principal SCGs, which should be considered in evaluating the remedial alternatives for the Site.

Remedial Alternative 1 – No Further Action

This alternative consists of allowing the Site to remain in its current condition. No remedial activities would occur under this remedy.

1. Protection of Human Health and the Environment – Not satisfied; as the on-site soil, groundwater and soil vapor vapor contamination would not be remediated, and the potential on-site exposure pathways would not be addressed.
2. Compliance with SCGs – Not satisfied; as CVOC contaminants would remain in soil (at concentrations that exceed NYSDEC Part 375 UUSCOs and PGWSCOs) potentially impacting groundwater.
3. Short-term Effectiveness and Impacts – Not satisfied; as there would be no measures in place to protect workers or the surrounding community from potential exposure during construction as part of Site redevelopment.
4. Long-term Effectiveness and Permanence – Not satisfied; as potential exposure pathways identified in the QHHEA would remain after Site redevelopment are completed.
5. Reduction of Toxicity, Mobility, or Volume of Contaminated Material – Not satisfied; as the contaminated material would remain in place.
6. Implementability – Very feasible, as no personnel or regulatory approvals would be needed.

7. Cost Effectiveness – Very cost effective to proceed with no further action; however, this criterion is not satisfied, as it requires a comparison of cost to long- and short-term effectiveness and toxicity reduction, which would not be achieved.
8. Community Acceptance – Not satisfied, as this alternative will allow the contamination to remain in place.
9. Land Use – Not satisfied. The Site is currently utilized as a commuter parking lot. In its current state, the Site does not contribute to expanding affordable housing in Queens, which is a land use goal for the community.
10. Environmental Footprint Analysis – Satisfied; this alternative would be the most green and sustainable option, as it does not require any remediation, therefore, no heavy machinery or trucks would be used.
11. Climate Change Vulnerability Assessment – Satisfied, as this alternative would not require any remediation, therefore, the impact of climate change on the Site and the proposed remedy under this alternative would not change.

Remedial Alternative 2 – Track 1 Unrestricted Use Soil Cleanup Objectives (UUSCOs)

Remedial Alternative 2 would include removal and/or treatment of all contaminated soil to comply with UUSCOs and source removal/treatment of groundwater to comply with the AWQSGVs. In addition, removal of all soil above UUSCOs and treatment of groundwater would reduce/eliminate elevated CVOCs in soil vapor. To achieve this, the remedy would include the following: excavation and off-site disposal of all soil across the Site exceeding UUSCOs and CVOCs above PGWSCOs; groundwater treatment to comply with AWQSGVs; and removal of any USTs or other sources of contamination, if encountered.

1. Protection of Human Health and the Environment – Satisfied; all soil above UUSCOs and PGWSCOs (CVOCs only) would be removed, and groundwater concentrations would be reduced to comply with AWQSGVs, thus removing the source of CVOCs in soil vapor.
2. Compliance with SCGs – Satisfied; all soil above UUSCOs and PGWSCOs (CVOCs only) would be removed, and groundwater concentrations would be reduced to comply with AWQSGVs, thus reducing concentrations of CVOCs in soil vapor.
3. Short-term Effectiveness and Impacts – Satisfied; this alternative would be effective in reducing contamination in the short-term since all contaminated soil will be removed from the Site, groundwater concentrations would be reduced through treatment, and soil vapor concentrations would be reduced through reducing soil and groundwater contamination. There is, however, a risk of short-term impacts to Site workers and the community, as the process of excavating contaminated soil to comply with UUSCOs may cause the release of particulates and organic vapors. This risk can be controlled by employing health and safety procedures during remediation and construction.
4. Long-term Effectiveness and Permanence – Satisfied; as removal of all soil above UUSCOs, which would include material with CVOCs above the PGWSCOs, remediation of VOCs in groundwater to comply with AWQSGVs, and remediation of VOCs in soil vapor would allow for unrestricted use of the Site.
5. Reduction of Toxicity, Mobility, or Volume of Contaminated Material – Satisfied; all the soil exceeding UUSCOs and PGWSCOs (CVOCs only) and soil with elevated CVOCs in soil vapor at the Site would be removed and all contaminated groundwater would be treated, the toxicity, mobility, and volume of on-site residual contaminants would be greatly reduced. Additionally,

removing the soil and groundwater contamination would significantly reduce soil vapor contamination or remove it entirely.

6. Implementability – Not satisfied, as the cost, time, and structural engineering requirements to complete an excavation to bedrock is not feasible. The site-wide excavation would present wide-ranging difficulties for access, use of machinery, fluids management, dewatering, and methods for supporting the excavation based on the overall depth of excavation and the west-adjacent infrastructure for the elevated NYC MTA train tracks. Due to the proximity and condition of the residential and commercial structures located on the eastern, southern and northern Site boundaries, significant support of excavation (SOE) and underpinning of the adjacent structures would be required to complete the full excavation of the Site. In addition, this alternative would require excavation in portions of the Site to approximately 50 feet bgs and into the groundwater table (groundwater table previously measured between 31 and 35 feet bgs) across portions of the Site, which would require significant dewatering and treatment of dewatering effluent. Excavation would be completed through the groundwater table to clean soil where endpoint samples would be collected to confirm attainment of PGWSCOs (CVOCs only) and UUSCOs. The significant volume of dewatering could induce settlement on the adjacent structures (including the roadway), which would require significant support and/or shoring.
7. Cost Effectiveness – Not cost-effective; this alternative would require extensive structural support to excavate approximately 20 feet below the water table (groundwater is approximately 30 feet bgs) and to protect the adjacent property structures and roadway. To achieve UUSCOs and PGWSCOs (CVOCs only) and remove the sources of soil vapor, it is assumed that all soil Site-wide (approximately 36,500 cubic yards or 54,750 tons of soil) would need to be excavated from the Site for off-site disposal. Using a conversion factor of 1.5 per ton, $50-100 per ton for disposal of non-hazardous soil, the disposal cost for this amount of contaminated soil would range from $2,737,500 to $5,475,000. Approximately 32,750 cubic yards of clean fill would then need to be imported, placed, and backfilled to establish pre-existing Site grades. Using a market rate of $50 per cubic yard, this equals approximately $1,637,500. The costs for dewatering the deeper localized excavation area to facilitate the excavation of soil/fill below the water table and treatment of the groundwater to comply with AWQSGVs would be approximately $500,000. To perform an excavation of this magnitude, extensive shoring, sheeting, and underpinning would have to be installed for the existing roadway and neighboring properties, with SOE costs estimated at $10,000,000. In addition to soil removal/remediation, groundwater treatment would be implemented to achieve the groundwater SCGs. The estimated groundwater treatment costs are $2,000,000. Engineering, inspection, oversight, and reporting associated with this alternative are estimated at a rate of 10% of the total costs or approximately $987,500. The cost for this alternative was estimated by combining these figures for an approximate total of $16,875,000. This assumes that the remedial work would be performed concurrent with the planned Site development and is not inclusive of demolition or abatement costs.
8. Community Acceptance – Partially satisfied; this alternative would be protective of human health and the environment in the long term; however the extended construction schedule would increase the time for potential construction-related disruptions to the surrounding community during remedial activities.
9. Land Use – Satisfied; this alternative would result in the cleanup of the Site for unrestricted use, which would allow for redevelopment of the Site.

Remedial Alternative 3 – Dual Track 4/Track 2 Restricted Residential Use Soil Cleanup Objectives

Remedial Alternative 3 would include: removal of asphalt followed by excavation and off-site disposal of removal of asphalt followed by excavation and off-site disposal of all source material (soil/fill above PGWSCOs for CVOCs), including a tetrachloroethylene (PCE) hotspot around RI-SB-11; all contaminated soil/fill in the upper 15 feet below ground surface (bgs) within the proposed new building cellar footprint to attain a Track 2 cleanup within this area; a minimum 2-foot cut outside the building footprint and within the slab-on-grade portion of the proposed building and all source material removal (soil/fill above PGWSCOs for CVOCs), including a tetrachloroethylene (PCE) hotspot around RI-SB-11, to attain a Track 4 cleanup in other areas of the Site. to attain a Track 4 cleanup; removal of any tanks or other sources of contamination discovered during remedial activities; implementation of a groundwater treatment program; installation of an active sub-slab depressurization (SSDS) system; installation of a contingency soil vapor extraction system (SVES); and, construction of a site cover system within the Track 4 portion of the Site. The site cover system would include a minimum of 2 feet of clean fill material placed in landscaped and permeable areas underlain by a demarcation barrier; (2) concrete building slabs (5-inch thick concrete slab in the cellar, 3-inch thick concrete rat slab in the crawl space, and 10-inch thick concrete slab in the first floor) underlain by a minimum 20-mil vapor barrier membrane, which doubles as a demarcation barrier, in areas within the new building footprint; and (3) paved surfaces in roadway and sidewalk areas.

The dual Track 4/Track 2 remedy would require Engineering Controls (ECs) and Institutional Controls (ICs) to be implemented for long-term management of the Site and to prevent future exposure to residual contamination. Each engineering control-the site cover system, SSDS, SVES, and groundwater treatment program-is a necessary component of the remedy required to achieve the RAOs and obtain a Certificate of Completion. As such, an Environmental Easement (EE) would be recorded for the Site to implement appropriate ECs and ICs, and a Site-specific Site Management Plan (SMP) would be prepared to specify future soil handling requirements, include provisions for evaluation of potential soil vapor intrusion for any buildings developed on the Site, management and inspection of the ECs that may be necessary, maintenance of Site access controls, Department notification, and land use restrictions would be prepared. Periodic inspection and reporting would be required to verify that the restrictions and requirements included in the EE remain in place and continue to be effective, in accordance with the certification requirements of 6 NYCRR § 375-1.8(h)(3).

1. Protection of Human Health and the Environment – Satisfied; as any residual contamination would be covered by a site cover system and SSDS/SVE will prevent vapor intrusion. Additionally, ECs and ICs would be implemented to prevent future exposure to any residual contamination.
2. Compliance with SCGs – Satisfied; as RAOs would be achieved by removing or preventing the potential for human and environmental exposures to chemical constituents above Track 4/2 RRSCOs and/or PGWSCOs (CVOCs only) and the groundwater treatment program would reduce CVOC concentrations in groundwater.
3. Short-term Effectiveness and Impacts – Satisfied; as this alternative would be effective in reducing soil/fill contamination in the short-term since the PCE source material in soil and additional contaminated material site-wide will be removed from the Site to comply with the Track 2/4 RRSCOs. Mitigation measures included in this RAWP, including the HASP and CAMP, would protect and limit exposure of workers and the surrounding community to contaminated soil, dust, and/or soil vapor during the remedial action.

4. Long-term Effectiveness and Permanence – Satisfied; as contaminated material would be removed from the Site to comply with the Track 2/4 RRSCOs, and the implementation of ECs (including an active SSDS, groundwater treatment program, Site cover system and contingent SVES and ICs would address residual contamination and limit the exposure of future occupants to contaminated soil in the long term, thus achieving the RAOs.
5. Reduction of Toxicity, Mobility, or Volume of Contaminated Material – Satisfied; as the volume of contaminants at the Site would be greatly reduced. Removal of source material from the Site would also reduce residual contaminant mobility into groundwater and soil vapor. Operation and maintenance of an SSDS and SVES (if required) would reduce mobility of soil vapor contaminants with respect to migrating into on-site and off-site structures.
6. Implementability – Satisfied, contaminated soil removal could be completed in a relatively short timeframe and the equipment and personnel needed to perform the proposed remedial actions are readily available. The equipment and materials necessary to install the SSDS and SVES (if required) and to implement the groundwater treatment program are readily available, and each could be installed concurrent with development.
7. Cost Effectiveness – Satisfied; this alternative is the most cost-effective while being implementable. Under this alternative, approximately 6,317 cubic yards, or 9,475 tons, of contaminated soil would be excavated and disposed of off-site. The average market rate for the transportation and disposal of contaminated non-hazardous soil is estimated at $50-$100 per ton. Using these unit rates, the disposal cost for this amount of contaminated non-hazardous soil would be on the order of $473,750 to $947,500. Approximately 1,100 cubic yards of clean fill would then need to be imported, placed, and backfilled to establish pre-existing Site grades. Using a market rate of $50 per cubic yard, this equals approximately $55,000. The estimated cost for the shoring/sheeting to complete the remedial excavation is estimated at $1,500,000. The cost to install the SSDS and vapor barrier would be approximately $290,000. If required, the cost to install the SVES is approximately $600,000. In addition to soil removal/remediation, groundwater treatment would be implemented to achieve the groundwater SCGs. The estimated groundwater treatments costs are $960,000. Costs associated with consulting services including engineering/environmental oversight, design, coordination, and reporting are approximately $450,000. Analytical laboratory fees for laboratory analyses for endpoint samples, import/reuse, groundwater sampling and data validation are estimated at $200,000. The cost for this alternative was estimated by combining these figures for an approximate total of $4,270,000. If the contingent SVES is required, the total costs are estimated at approximately $4,870,000. This assumes the remedial work would be performed concurrent with the planned Site development.
8. Community Acceptance – Satisfied; this alternative would be protective of human health and the environment.
9. Land use – Satisfied; this alternative would result in the cleanup of the Site for restricted-residential use, which would allow for redevelopment of the Site.
10. Environmental Footprint Analysis – Satisfied; as this alternative would incorporate more green and sustainable remediation principles compared to a Track 1 cleanup, by requiring fewer truck trips for soil disposal and import, and a shorter period during which heavy equipment is used to complete the work. An environmental footprint analysis for this alternative will be performed in accordance with the NYSDEC guidelines, the methodologies used in the EPA SEFA tool, and the requirements of the CLCPA. The environmental footprint analysis will be provided in the forthcoming Remedial Design Document. Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction, and material use were estimated,

and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, were incorporated. A dual Track 2/4 cleanup would result in less fuel usage and waste, in comparison to the Track 1 alternative. Additionally, the shorter construction duration for dual Track 2/4 indicates that there would be less energy consumption and fewer co-pollutant emissions.

11. Climate Change Vulnerability Assessment – Satisfied, the impact of climate change on the Site and the proposed remedy under this alternative was evaluated. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise were identified, and this alternative would incorporate measures to minimize the impact of climate change on potential identified vulnerabilities. The remedy is not expected to be affected by the projected increase in temperature, precipitation levels, or sea level rise. Additionally, erosion and sediment controls that will be implemented during construction will be resilient to the current rainfall levels. The Climate Change Vulnerability Assessment will be provided in the forthcoming Remedial Design Document.

4.2 Selection of the Preferred Remedy

Remedial Alternative 1 (no action) allows the Site to remain in its current condition. This remedial alternative was reviewed and found to be unacceptable, since it would not achieve the RAOs. Therefore, this remedial alternative is not considered a feasible solution.

Remedial Alternative 2 (Track 1) was reviewed and found to be unacceptable, since it is not cost-effective and extremely difficult to implement or may not be implementable. Therefore, this remedial alternative is not considered a feasible solution.

Remedial Alternative 3 (Dual Track 2/Track 4) achieves the RAOs while being cost-effective and satisfies all nine remedy selection factors set forth in 6 NYCRR § 375-1.8(f). After careful consideration with respect to the evaluation criteria listed, Remedial Alternative 3 is determined to be the preferred remedy, since it is necessary to adequately address the subsurface contamination, protect public health and the environment, achieve compliance with applicable SCGs, and provide for the long-term effectiveness and permanence of the remedy using the most cost-effective and implementable approach. Each component of the selected remedy, including source removal, engineering controls (SSDS, SVES, groundwater treatment, and site cover system), and institutional controls, will achieve the remedial action objectives and to obtain a Certificate of Completion pursuant to 6 NYCRR § 375-3.9 and ECL § 27-1419.

4.2.1 Zoning

The Site is currently zoned as R5/C4-5 along 31st Street and R5/C4-2A along 32nd Street. The Site was rezoned in March 2026 under the Ikos Senior Housing Rezoning UDAAP, subject to CEQR, and allows for the development of community facility space and increased residential space. The proposed use of the Site is consistent with the objectives of the zoning district.

4.2.2 Applicable Comprehensive Community Master Plans or Land Use Plans

The proposed redevelopment plan is consistent with existing zoning and land use patterns in the surrounding area, and there are no existing neighborhood plans or policies in effect that would preclude the proposed redevelopment.

4.2.3 Surrounding Property Uses

The Site is bounded to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. The greater surrounding area includes primarily commercial, retail, residential, and transit uses.

4.2.4 Citizen Participation

A Citizen Participation Plan (CPP) was prepared by AKRF in October 2025 as part of the BCP process, and the CPP was approved by NYSDEC in November 2025. The CPP provides for ongoing updates to the public regarding the investigation and remediation and allows for involvement regarding the environmental investigation and cleanup of the Site; the contemplated remedy complies with the CPP. The NYSDEC-approved CPP is included as Appendix I.

4.2.5 Environmental Justice

The Site is not located in an Environmental Justice Area. Environmental justice is defined as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Environmental justice efforts focus on improving the environment in communities, specifically minority and low-income communities, and addressing disproportionate adverse environmental impacts that may exist in those communities. The selected remedy would address any environmental justice concerns although the Site is not located in an Environmental Justice Area.

4.2.6 Land Use Designations

There are no federal or state land use designations.

4.2.7 Population Growth Patterns

The population in this neighborhood is expected to increase in the future. This project will provide necessary affordable housing units to help meet that need.

4.2.8 Accessibility to Existing Infrastructure

The Site is located within walking distance of the N and W subway line, and the Q104, Q69 and Q100 public bus stops. The Bruckner Expressway (I-278) is located four avenues (approximately 0.7 miles) north of the Site. The surrounding area is supplied with municipal sewers and water, electricity, telephone, natural gas, and fiber-optic lines.

4.2.9 Proximity to Cultural Resources

There are no cultural resources located adjacent to the Site. The nearest cultural resources include Museum of the Moving Image, Marlene Yu Museum, MoMA PS1, the Queens Culture & Arts Network, and Greek Cultural Center located approximately 1.1 miles from the Site.

4.2.10 Proximity to Natural Resources

Nearby parks and natural resources include Athens Square, Rainey Park, and Socrates Sculpture Park, located within approximately 0.7 miles of the Site.

4.2.11 Off-Site Groundwater Impacts

Based on Site-specific groundwater measurements, groundwater beneath the Site ranges from elevation 18.82 to elevation 20.3 (NAVD88), or 29.91 to 36.12 feet below grade across the Site, and flows in a generally westerly direction as shown on Figure 5. VOCs (chloroform, cis-1,2-dichloroethene, PCE, and TCE) and metals were detected in groundwater samples at concentrations above the AWQSGVs. PFOA and PFOS were detected above their respective NYSDEC guidance value of 6.7 and 2.7 parts per trillion (ppt) in all eight groundwater samples.

The metals detected in groundwater are consistent with regional background conditions typical of groundwater quality in Queens and are not considered COCs. Based on the RI data, there is the potential for chlorinated solvents to migrate off-site.

PFAS concentrations in groundwater appear to be relatively consistent across the Site, indicating that the concentrations observed may be indicative of the surrounding area and not of an on-site source. The proposed remedy is intended to remove the source of groundwater contamination for chlorinated solvents, thereby preventing any (further) off-site migration of contaminated groundwater.

4.2.12 Proximity to Floodplains

The Site is not located within the 100- or 500-year floodplain.

4.2.13 Geography and Geology of the Site

The stratigraphy of the Site, from the surface down, generally consisted of a surficial layer of asphalt underlain by fill material comprised of sand, silt, and gravel with varying amounts of brick, concrete, and asphalt extending from grade to approximately 2 to 10 feet below grade. The fill material was underlain by varying amounts of apparent native sand, silt, and gravel to boring termination depths (up to 51 feet below grade). Bedrock was encountered at depths ranging from approximately 47 to 51 feet below grade in borings RI-SB-01, RI-SB-05, and RI-SB-08.

4.2.14 Current Institutional Controls (ICs) and Engineering Controls (ECs)

Currently, there are no ICs or ECs at the Site.

4.3 Summary of Selected Remedial Actions

Remedial activities will be performed at the Site in accordance with this RAWP and the Department-issued Decision Document (DD). All deviations from this RAWP and/or the DD will be promptly reported to NYSDEC for approval and will be fully explained in the Final Engineering Report (FER). Each of the selected remedial actions described below is necessary to implement the Site's remediation, achieve the RAOs, obtain a Certificate of Completion, and comply with the requirements of 6 NYCRR Part 375 and the BCA. The selected remedial actions include:

1. A remedial program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design,

implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of New York (or most recent edition) to improve energy efficiency as an element of construction.

As part of the remedial program, to evaluate the remedy with respect to green and sustainable remediation principles, an environmental footprint analysis will be completed. The environmental footprint analysis will be completed using an accepted environmental footprint analysis calculator such as SEFA (Spreadsheets for Environmental Footprint Analysis, USEPA), SiteWiseTM (available in the Sustainable Remediation Forum [SURF] library) or similar Department accepted tool. Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use will be estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, will be incorporated into the remedial program, as appropriate. The project will include detailed requirements to achieve the green and sustainable remediation goals. Further, progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the Final Engineering Report (FER), including a comparison to the goals established during the remedial program.

Additionally, the remedial program will include a climate change vulnerability assessment, to evaluate the impact of climate change on the project site and the proposed remedy. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise will be identified, and the remedial program will incorporate measures to minimize the impact of climate change on potential identified vulnerabilities.

2. The proposed remedy is a dual Track 2/Track 4 Restricted Residential cleanup.
3. Removal of asphalt followed by excavation and off-site disposal of 1) all contaminated soil/fill in the upper 15 feet bgs within the proposed new building cellar footprint to attain a Track 2 cleanup within this area, and 2) a minimum 2-foot cut and all source material removal (soil/fill

above PGWSCOs for CVOCs), including a PCE hotspot around RI-SB-11, to attain a Track 4 cleanup in other areas of the Site.

4. Any unknown/unregistered tanks and associated piping, other structures associated with a source of contamination, and/or grossly contaminated soil/fill, if encountered, will be removed in accordance with applicable regulations.
5. Installation of support of excavation (SOE) necessary to enable and physically support the excavation of contaminated soil/fill and to prevent off-site migration of contamination, in accordance with 6 NYCRR § 375-1.8(c). SOE installation will comply with applicable local and state-controlled inspections.
6. Decommissioning of existing groundwater monitoring wells in accordance with NYSDEC CP-43 if monitoring well locations conflict with proposed building foundation elements and/or if monitoring wells cannot be safely preserved during construction.
7. A Site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) will be implemented during all ground-intrusive Site activities, which includes soil disturbance and loading activities, to monitor levels of VOCs and airborne particulates within the active work zones and around the perimeter of the Site.
8. A Special Requirements Community Air Monitoring Program (SRCAMP) will be implemented during all ground-intrusive Site activities within 20 feet of occupied structures and/or potentially exposed populations to monitor levels of VOCs and airborne particulates.
9. Screening for indications of contamination (by visual means, odor, and monitoring with a PID) of soil during all ground-intrusive Site work, including soil disturbance and loading activities.
10. Characterization and off-site disposal of all materials removed from the Site in accordance with all federal, state, and local rules and regulations for handling, transport, and disposal. Waste disposal facilities will be selected based on the data collected to date and the results of the planned waste classification sampling.
11. Performance of a Pre-Design Investigation (PDI) to support the remedy.
12. Importation of clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) to raise the Site grade after remedial excavation, construct the Site cover, and/or as needed for use as backfill. Fill material that does not exceed RRSCOs for any compound may be used on-site to backfill the Site. Soil exceeding the UUSCO for 1,4-dioxane will not be imported, per DER-10: Appendix 5 - Allowable Constituent Levels for Imported Fill or Soil, Subdivision 5.4(e). If PFOA or PFOS are detected in any sample at or above the RRGV, it will also be tested by the Synthetic Precipitation Leaching Procedure (SPLP). If the SPLP concentrations of PFOA and PFOS are at or above 10 ppt, the soil will not be reused or imported. Analytical results will be compared to Table 375-6.8(b) of 6 NYCRR Part 375 and submitted to NYSDEC via a *Request to Import/Reuse Soil or Fill* form for review and approval prior to importation and placement on-site. All imported soil or soil proposed for reuse requires NYSDEC review prior to on-site placement.
13. Implementation of a groundwater treatment program necessary to address elevated concentrations of chlorinated volatile organic compounds (CVOCs) in groundwater, restore groundwater quality to the extent practicable in accordance with 6 NYCRR § 375-1.8(d), and prevent the off-site migration of the groundwater plume. Prior to the full implementation of the treatment program, a bench-scale treatability study will be conducted to more clearly define the design parameters; however, it is anticipated that the treatment will require approximately 32 injection points to distribute sodium permanganate (or other chemical) in the treatment area.

The groundwater treatment program will be performed to treat groundwater between approximately 30 to 50 feet bgs.

14. Collection and laboratory analysis of post-excavation endpoint samples across the Site to document achievement of the remedy and/or remaining concentrations of contaminants in soil/fill after excavation is complete. Endpoint sampling will occur around any hotspots and/or additional AOCs identified during the remedial action based on the sampling frequency outlined in Section 5.4 of DER-10.
15. Construction and maintenance of a Site cover system within the Track 4 portion of the Site which is necessary to prevent human exposure to residual contaminants in soil/fill remaining under the Site and to satisfy the Cover System Requirements of 6 NYCRR § 375-3.2(e). The cover system, consistent with applicable regulations, which will consist of: (1) a minimum of 2 feet of clean fill material placed in landscaped and permeable areas underlain by a demarcation barrier; (2) concrete building slabs (5-inch thick concrete slab in the cellar, 3-inch thick concrete rat slab in the crawl space, and 10-inch thick concrete slab in the first floor) underlain by a minimum 20-mil vapor barrier membrane, which doubles as a demarcation barrier, in the slab-on-grade portion of the proposed building; and (3) paved surfaces in roadway and sidewalk areas.
16. Installation and operation of an active sub-slab depressurization system (SSDS) below the proposed new building foundation to prevent vapor intrusion into the proposed building and to eliminate the exposure pathway from contaminated soil vapor to future building occupants, as required by regulations and the NYSDOH Soil Vapor Intrusion Guidance.
17. Installation of below grade elements of a contingency soil vapor extraction system (SVES) around the Site perimeter, which is necessary to prevent off-site migration of contaminated soil vapor and to protect adjacent receptors from vapor intrusion in accordance with Part 375. Aboveground elements of the system will be installed and the SVES will be operated depending on post-remedial soil vapor concentrations of CVOCs.
18. Recording of an Environmental Easement (EE) with the New York City Register to prevent future exposure to any residual contamination remaining at the Site and required pursuant to 6 NYCRR § 375-1.8(h)(2) and ECL Article 71, Title 36. The EE will: require the remedial parties/Site owners to complete and submit a periodic certification of ECs and ICs to the Department in accordance with Part 375-1.8 (h)(3); allow the use and development of the Site for restricted residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water without necessary water quality treatment, as determined by NYSDOH; and require compliance with a Site-specific NYSDEC-approved SMP.
19. Preparation of an SMP necessary for long-term management of residual contamination as required by the EE and 6 NYCRR § 375-1.8(a)(5) (in the Track 4 portion of the Site) including plans for: (1) ECs and ICs, (2) monitoring, (3) operation and maintenance, and (4) reporting. Inclusion of soil management provisions in the SMP, including an Excavation Work Plan.

5.0 REMEDIAL ACTION PROGRAM

5.1 Governing Documents

5.1.1 Standards, Criteria, and Guidance (SCGs)

The SCGs, summarized in Section 2.6.3 and provided in Appendix D, that apply to the project and will be used to determine whether the RAOs have been met.

5.1.1.1 Green and Sustainable Remediation and Climate Resiliency

As part of the remedial design program, the remedy was evaluated with respect to green and sustainable remediation principles via an environmental footprint analysis. After the remedial program is completed, the environmental footprint analysis will be updated using a NYSDEC-accepted environmental footprint analysis calculator EPA Spreadsheets for Environmental Footprint Analysis (SEFA), SiteWise™ or similar NYSDEC-accepted tool. Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use were estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, were incorporated into the remedial design program, as appropriate. The project design specifications include detailed requirements to achieve the green and sustainable remediation goals. The environmental footprint analysis will be provided in the forthcoming Remedial Design Document.

Further, progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the FER, including a comparison to the goals established during the remedial design program. Additionally, the remedial design program included a climate change vulnerability assessment to evaluate the impact of climate change on the project site and the proposed remedy. Any potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise were identified, and the remedial design program will incorporate measures to minimize the impact of climate change on potential identified vulnerabilities.

5.1.2 Site Specific Health and Safety Plan (HASP)

A Site-specific HASP has been prepared for the Site and is included as Appendix G. All remedial work performed under this RAWP will be in compliance with governmental requirements, including Site and worker safety requirements mandated by the federal Occupational Health and Safety Administration (OSHA). Community air monitoring will be conducted during all intrusive Site activities in compliance with the NYSDOH Generic CAMP and the Site-Specific CAMP (included in Appendix H). Work zone monitoring will be performed for the health and safety of workers in accordance with action levels and guidance outlined in the HASP.

The Volunteer and associated parties preparing the remedial documents submitted to the State and those performing the construction work, are completely responsible for the preparation of an appropriate HASP and for the appropriate performance of work according to that plan and applicable laws.

The HASP and requirements defined in this RAWP pertain to all remedial and invasive work performed at the Site until the issuance of a Certificate of Completion (CoC).

Resumes of key AKRF personnel involved in the RA are included in Appendix A of the QAPP, provided as Appendix F.

Confined space entry will comply with all OSHA requirements to address the potential risk posed by combustible and toxic gasses.

5.1.3 Quality Assurance Project Plan (QAPP)

Any sampling associated with this project will be conducted in accordance with the QAPP included in Appendix F, which details field screening and sampling methodologies, and sample submittal and reporting requirements. The QAPP includes the project team responsible for implementing the remediation requirements and provisions set forth in this RAWP.

5.1.4 Construction Quality Assurance Plan (CQAP)

The CQAP, provided as Appendix J, provides a detailed description of the observation and testing activities that will be used to monitor construction quality and confirm that remedial construction is in conformance with the remediation objectives and specifications.

5.1.5 Soil/Materials Management Plan (SoMP)

An SMMP is included in Section 6.4 of this document. The SMMP includes detailed plans for managing all soils/materials that are disturbed at the Site, including excavation, handling, storage, transport, and disposal. It also includes all procedures that will be applied to assure effective, nuisance-free performance in compliance with all applicable federal, state, and local laws and regulations.

5.1.6 Storm-Water Pollution Prevention Plan (SWPPP)

Based on the size of disturbance required for redevelopment, a SWPPP is required and will be submitted to the New York City Department of Environmental Protection (NYCDEP) in accordance with New York City Stormwater regulations. Erosion and sediment controls implemented at the Site will conform to requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control Erosion. Sediment control measures will be installed at the Site prior to conducting any ground-intrusive work. These measures will be installed according to all applicable or relevant and appropriate federal, state, and local laws. The measures will provide for abatement and control of environmental pollution arising from proposed remediation and construction activities. The control measures will include procedures for perimeter Site controls, stabilized construction pads at each construction entrance, equipment decontamination, drainage inlet protection, and dust suppression. The Remedial Engineer (RE), or her representative, will conduct routine inspections, any repairs and/or maintenance of control measures will be completed in a timely fashion to maintain the controls in proper working order. All vehicles will be inspected to ensure that no soil adheres to their wheels or undercarriage prior to leaving the Site. Any situations involving material spilled in transit or mud and dust tracked offsite will be remedied. The access routes will be inspected for road conditions, overhead clearance, and weight restrictions.

Upon approval of the SWPPP by NYCDEP, it will be reviewed by the RE, and a copy will be submitted to NYSDEC prior to start of remedial excavation.

5.1.7 Community Air Monitoring Plan (CAMP)

Community air monitoring will be conducted during all intrusive Site activities in compliance with the NYSDOH Generic CAMP and the Site-Specific CAMP, provided in Appendix H. A minimum of two CAMP stations (upwind and downwind) will be utilized during all remedial activities. The proposed CAMP station locations are shown on Figure 9.

Additionally, a Special Requirements CAMP will be implemented during all ground-intrusive Site activities within 20 feet of occupied structures and/or potentially exposed populations. The Special Requirements CAMP will be performed via fixed stations placed at the location of the nearest potentially exposed individuals (e.g., public walkway, building wall, etc.) and/or ventilation system intakes of the occupied structures. Further information is provided in Appendix H. A total of three CAMP stations will be utilized during intrusive activities performed at the Site. The approximate CAMP station locations are shown on Figure 9.

CAMP data summarized will be provided to NYSDEC and NYSDOH in the daily reports, and CAMP action level exceedances will be reported to NYSDEC and NYSDOH within 24 hours.

5.1.8 Contractors Site Operations Plan (SOP);

The Remedial Engineer (RE), or her designated representative, has or will review all plans and submittals for this remedial project (including those listed above and contractor and sub-contractor document submittals) to confirm that they are in compliance with this RAWP. The RE is responsible to ensure that all later document submittals for this remedial project, including contractor and sub-contractor document submittals, are in compliance with this RAWP. All remedial documents will be submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

5.1.9 Citizen Participation Plan

A certification of mailing will be sent by the Volunteer to the NYSDEC project manager following the distribution of all Fact Sheets and notices that includes: (1) certification that the Fact Sheets were mailed; (2) the date they were mailed; (3) a copy of the Fact Sheet; (4) a list of recipients (contact list); and (5) a statement that the repository was inspected on (specific date) and that it contained all of applicable project documents.

No changes will be made to approved Fact Sheets authorized for release by NYSDEC without written consent of the NYSDEC. No other information, such as brochures and flyers, will be included with the Fact Sheet mailing.

The approved CPP for this project is attached in Appendix I. Document repositories have been established at the following locations listed in Table F and contain all applicable project documents:

Table F
Document Repositories

Document Repository	Hours of Operation
Broadway Public Library 40-20 Broadway Astoria, NY 11103 **Attn:** Abigail Goldberg, Asst. Manager **Phone:** (718) 721-2462	Monday : 10 AM–6 PM Tuesday: 1 PM–6 PM Wednesday: 10 AM–6 PM Thursday: 12 PM–6 PM Friday: 10 AM–6 PM Saturday: 10 AM–5 PM Sunday: Closed
Queens Community Board 1 45-02 Ditmars Boulevard LL Suite 1025 Queens, NY 11105 **Attn:** Florence Koulouris, District Manager **Phone:** (718) 626-1021	Monday-Friday: 9AM–5PM (call for appointment)
NYSDEC 625 Broadway Albany, NY 12233-7016 **Attn:** Meghan Medwid, EIT **Phone:** (518) 402-9767	Monday-Friday: 9 AM–5 PM (call for appointment)

5.2 General Remedial Construction Information

5.2.1 Project Organization

A list of the personnel responsible for implementation of the RAWP is presented in Table G.

Table G
Project Organization

Organization	Responsibility	Name
NYSDEC	Project Manager	Elliot Jackson
NYSDOH	Project Manager	Mya Burns
Ikos Senior Living LLC	Volunteer's Representative	Alexa Mendel
AKRF	Remedial Engineer	Rebecca A. Kinal, P.E.
	Project Director	Deborah Shapiro, QEP
	Project Manager	Adrianna Bosco
	Project Manager Alternate	Benjamin Hess, PE
	Site Safety Officer	Brian Quinn
	Anticipated Field Monitors	Carey Parker Sean Curley

Resumes of key AKRF personnel involved in the RA are included in Attachment A of the QAPP, provided as Appendix F.

5.2.2 Remedial Engineer

The RE for this project will be Rebecca Kinal. The RE is a registered professional engineer licensed by the State of New York. The RE will have primary direct responsibility for implementation of the remedial program for the Ikos Senior Living Site (NYSDEC BCA Index No. C241290). The RE will certify in the FER that the remedial activities were observed by qualified environmental professionals under her supervision and that the remediation requirements set forth in the RAWP and any other relevant provisions of ECL 27-1419 have been achieved in full conformance with that Plan. Other RE certification requirements are listed later in this RAWP.

The RE, or designated personnel under her supervision, will coordinate the work of other contractors and subcontractors involved in all aspects of remedial construction, including soil excavation, stockpiling, characterization, removal and disposal, air monitoring, emergency spill response services, import of back fill material, and management of waste transport and disposal. The RE will be responsible for all appropriate communication with NYSDEC and NYSDOH.

The RE, or designated personnel under her supervision, will review all pre-remedial plans submitted by contractors for compliance with this RAWP and will certify compliance in the FER. The RE will provide the certifications listed in Section 10.1 in the FER.

5.2.3 Remedial Action Construction Schedule

A schedule for performance of the remedial work is included in Section 13.0.

5.2.4 Work Hours

The hours for operation of remedial construction will conform to the New York City Department of Buildings (NYCDOB) construction code requirements, construction permits, or according to specific variances issued by the NYCDOB. NYSDEC will be notified by the Volunteer of any variances issued by the NYCDOB. NYSDEC reserves the right to deny alternate remedial construction hours.

5.2.5 Site Security and Traffic Control

The Site will be completely closed from public access by using secured construction fencing. No unauthorized personnel will be able to access the Site. During off hours, the Site will be completely enclosed within a locked gate.

It is not anticipated that traffic will be disrupted beyond normal contractor vehicle traffic going to and from the Site during construction. Any sidewalk closures that are required during the course of construction/remediation activities will be conducted in accordance with NYCDOT permits.

5.2.6 Contingency Plan

A contingency plan has been developed to describe the procedures to be followed upon discovery of an unknown source of contamination or AOC that may require remediation (USTs, stained soil, drums, etc.). The identification of an unknown source structure or unexpected contaminated media discovered by waste characterization sampling and/or screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. These findings will also be included in daily and periodic reports. Any unknown/unregistered USTs discovered during the course of remedial activities will be managed in accordance with requirements of NYCRR 375-1.12(e). The

NYSDEC project manager will be notified immediately before any action is taken. Any sampling will be performed on product, sediment and surrounding soil, etc. Chemical analytical work will be for TCL VOCs, SVOCs, TCL pesticides, PCBs, and TAL metals. These analyses will not be limited to the Commissioner's Policy (CP)-51 parameters where tanks are identified without prior approval by NYSDEC.

5.2.7 Worker Training and Monitoring

All those who enter the work area while intrusive activities are being performed must recognize and understand the potential hazards to health and safety. All construction personnel upon entering the Site must attend a brief training meeting, its purpose being to:

- Make workers aware of the potential hazards they may encounter;
- Instruct workers on how to identify potential hazards;
- Provide the knowledge and skills necessary for them to perform the work with minimal risk to health and safety;
- Make workers aware of the purpose and limitations of safety equipment; and
- Ensure that they can safely avoid or escape from emergencies.

Construction personnel will be responsible for identifying potential hazards in the work zone. The project manager will be responsible for ensuring that the training is conducted. Others who enter the Site must be accompanied by a suitably-trained construction worker. In addition, any site workers within the remediation "work zone" will have received the OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training and will be under a medical monitoring program. Current certifications for key personnel are included in Attachment A of the QAPP, provided as Appendix F.

5.2.8 Agency Approvals

The Volunteer will comply with all City Environmental Quality Review (CEQR) and State Environmental Quality Review Act (SEQRA) requirements for this Site. All permits or government approvals required for remedial construction have been, or will be, obtained prior to the start of remedial construction.

The planned end use for the Site is in conformance with the current zoning for the Site as determined by New York City Department of Planning, the New York City Department of Housing Preservation and Development, and the New York City Department of Buildings. A Certificate of Completion will not be issued for the project unless conformance with zoning designation is demonstrated.

A complete list of all local, regional and federal governmental permits, certificates or other approvals or authorizations required to perform the remedial and development work will be provided in the FER.

Although not anticipated, all planned remedial or construction work in regulated wetlands and adjacent areas will be specifically approved by the NYSDEC Division of Natural Resources to ensure that it meets the requirements for substantive compliance with those regulations prior to the start of construction. Nothing in the approved RAWP or its approval by NYSDEC should be construed as an approval for this purpose.

5.2.9 NYSDEC BCP Signage

Signs are optional for BCP sites and will be discussed with the NYSDEC Project Manager. If a sign is displayed, it will follow NYSDEC specifications for design and content, provided by the NYSDEC Project Manager.

5.2.10 Pre-Construction Meeting with NYSDEC

A pre-construction meeting with NYSDEC will be scheduled prior to the start of major construction activities. Representative members of the Volunteer, the general contraction, foundation contractor, soil broker (if applicable), AKRF, NYSDEC, and NYSDOH, will be invited to attend.

5.2.11 Emergency Contact Information

An emergency contact sheet with names and phone numbers is included in the Site-specific HASP, provided in Appendix G. That document will define the specific project contacts for use by NYSDEC and NYSDOH in the case of a day or night emergency.

5.2.12 Remedial Action Costs

The total estimated cost of the Remedial Action is $4,270,000 to $4,870,000. An itemized and detailed summary of estimated costs for all remedial activity is included in Table 16. All costs identified therein are necessary to implement the Site's remediation, achieve the RAOs, and qualify for issuance of a Certificate of Completion pursuant to ECL § 27-1419 and 6 NYCRR § 375-3.9. This will be revised based on actual costs and submitted as an appendix to the FER.

5.3 Site Preparation

Prior to conducting any intrusive activities for Site remediation activities, the work zone(s), designated entry points, soil stockpile staging areas, decontamination zones, and truck routes will be established, as applicable. All site preparation activities described in this section are necessary to facilitate and enable the remediation activities required under this RAWP. A truck route map is included as Figure 10. The Site Plan will be updated as necessary to reflect any changes in operations during the course of the intrusive work. Particulate control measures, if necessary, will be implemented. Additional details of Site preparation activities are provided in the following sections.

5.3.1 Mobilization

Site mobilization involving Site security setup, fencing, equipment mobilization, utility mark outs and marking and staking excavation areas will be performed prior to undertaking any Site remediation activities.

5.3.2 Monitoring Well / Vapor Probe Decommissioning

Existing groundwater monitoring wells will either be protected during remediation, if required, or will be properly decommissioned in accordance with NYSDEC Commissioners Policy CP-43. The only exception to this is if the full length of the well is to be excavated during remediation.

As there are currently no permanent soil vapor probes on-site, soil vapor probe decommissioning is not required.

5.3.3 Erosion and Sedimentation Controls

Erosion and sedimentation control measures will be installed at the Site prior to conducting any ground-intrusive work. These measures will be installed according to all applicable or relevant and appropriate federal, state, and local laws and the NYCDEP-approved SWPPP. The measures will provide for abatement and control of environmental pollution arising from proposed remediation and construction activities. The control measures will include procedures for perimeter Site controls, stabilized construction pads at each construction entrance, equipment decontamination, drainage inlet protection, and particulate suppression. The RE, or her representative, will conduct routine inspections, and any repairs and/or maintenance of control measures required will be completed in a timely fashion to maintain the controls in proper working order. All vehicles leaving the project Site will be inspected to ensure that no soil adheres to the wheels or undercarriage of the vehicle leaving the Site. Any situations involving material spilled in transit or mud and particulate tracked off-site will be remedied. The access routes will be inspected for road conditions, overhead clearance, and weight restrictions.

Upon approval of the SWPPP by NYCDEP, it will be reviewed by the RE, and a copy will be submitted to NYSDEC prior to start of remedial excavation.

5.3.4 Stabilized Construction Entrance(s)

A crushed stone path will be constructed by the general contractor at all truck entrances for the Site. All trucks will drive over this path prior to leaving so that they do not get re-contaminated prior to departure from the Site. A laborer with a broom and a hose connected to a NYC fire hydrant will check the trucks as they leave. The broom and/or hose will be used to remove soil/fill from the truck tires and body as it leaves the Site, as necessary.

5.3.5 Utility Marker and Easements Layout

The Volunteer and its contractors are solely responsible for the identification of utilities that might be affected by work under the RAWP and implementation of all required, appropriate, or necessary health and safety measures during performance of work under this RAWP. The Volunteer and its contractors are solely responsible for safe execution of all invasive and other work performed under this RAWP. The Volunteer and its contractors must obtain any local, State or Federal permits or approvals pertinent to such work that may be required to perform work under this RAWP. Approval of this RAWP by NYSDEC does not constitute satisfaction of these requirements.

The presence of utilities and easements on the Site has been investigated by the Remedial Engineer. It has been determined that no risk or impediment to the planned work under this Remedial Action Work Plan is posed by utilities or easements on the Site.

5.3.6 Sheeting and Shoring

Sheeting and shoring are engineering controls required to prevent off-site migration of contamination from the Site and to physically support the remedial excavation, in accordance with the source removal and control requirements of 6 NYCRR § 375-1.8(c). Appropriate management of structural stability of on-Site or off-Site structures during on-Site activities including excavation is the sole responsibility of the Volunteer and its contractors. The Volunteer and its contractors are solely responsible for safe execution of all invasive and other work performed under this RAWP. The Volunteer and its contractors must obtain any local, State or Federal permits or approvals that may be required to perform work under this RAWP. Further, the Volunteer and its contractors are solely responsible

for the implementation of all required, appropriate, or necessary health and safety measures during performance of work under the approved RAWP.

5.3.7 Equipment and Material Staging

Staging and storage of equipment and materials will be contained within the secured Site or within a secured area on the street/sidewalk in accordance with a NYCDOT permit. By the nature of the work involved in the project, equipment and materials will be moved to different areas within the secured Site as work progresses. Materials will be stored in accordance with applicable federal, state, and local regulations.

5.3.8 Decontamination Area

A decontamination area will be established adjacent to the work areas. Decontamination fluids will be managed to prevent discharge to the ground surface.

All equipment in direct contact with known or potentially contaminated material will be either dedicated or decontaminated prior to handling less contaminated material or removal from the Site. All liquids used in the decontamination procedure will be collected, stored and disposed of in accordance with federal, state, and local regulations. Personnel performing this task will wear the proper personal protective equipment (PPE) as prescribed in the HASP, which is provided in Appendix G.

5.3.9 Site Fencing

The Site will be secured with a locking, wooden construction fence meeting all applicable NYCDOB requirements, that will be placed around the entire perimeter. Entrance gates will be chain link with silt fencing. Both types of fencing will help contain dust and debris generated during demolition and ground intrusive activities from migrating off-site. During all remedial activities, access to the Site will be limited and all persons entering the Site will be required to sign a log book and meet all applicable health and safety requirements. The Site will be secured during non-working hours.

5.3.10 Demobilization

Restoration of the excavation work will include general earthwork and/or backfilling to prepare for construction of the proposed foundation elements, and roadways/pathways/sidewalks. Upon completion of the remedial excavation work, any waste materials (i.e., plastic sheet, absorbent pads, etc.) and the decontamination pad will be removed from the Site for proper disposal.

5.4 Reporting

All daily and monthly Reports will be included in the Final Engineering Report.

5.4.1 Daily Reports

Daily reports will be submitted to NYSDEC and NYSDOH Project Managers by noon of each day following the reporting period and will include:

- An update of progress made during the reporting day;
- Locations of work and quantities of material imported and exported from the Site;
- References to alpha-numeric map for Site activities;
- A summary of any and all complaints with relevant details (names, phone numbers);

- A summary of CAMP finding, including excursions;
- Photographs of Site activities; and
- An explanation of notable Site conditions.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accident, spill), requests for changes to the RAWP or other sensitive or time critical information. However, such conditions must also be included in the daily reports. Emergency conditions and changes to the RAWP will be addressed directly to NYSDEC Project Manager via personal communication.

Daily Reports will include a description of daily activities keyed to an alpha-numeric map for the Site that identifies work areas. These reports will include a summary of CAMP results, odor and dust excursions and corrective actions, and all complaints received from the public.

A Site map that shows a predefined alpha-numeric grid for use in identifying locations described in reports submitted to NYSDEC will be prepared during the waste characterization sampling event and provided to NYSDEC prior to the start of construction.

The NYSDEC assigned project number will appear on all reports.

5.4.2 Monthly Reports

Monthly reports will be submitted to NYSDEC and NYSDOH Project Managers by the 10th day of each month following the reporting period and will include:

- Activities relative to the Site during the previous reporting period and those anticipated for the next reporting period, including a quantitative presentation of work performed (e.g., tons/cubic yards of material exported and imported, etc.);
- Description of approved activity modifications, including changes of work scope and/or schedule;
- Sampling results received following internal data review and validation, as applicable; and,
- An update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.
- Tracking of GSR metrics determined during the design process should be included in monthly reports.

5.4.3 Other Reporting

Photographs will be taken of all remedial activities and submitted to NYSDEC in digital (JPEG) format. Photos will illustrate all remedial program elements and will be of acceptable quality. Representative photos of the Site prior to any Remedial Actions will be provided. Representative photos will be provided of each contaminant source, source area and Site structures before, during and after remediation. Photos will be included in the daily reports as needed, and a comprehensive collection of photos will be included in the FER.

Progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the FER, including a comparison to the goals established during the remedial program. Regular updates to the metrics used (SEFA, SiteWise™ or otherwise approved method) should be included.

The Climate Screening process and results will be documented in the form of a completed checklist and brief letter report. If the Climate Screening results indicate that a CVA is necessary, a complete CVA Report will be developed. The CVA Report will be included as an appendix or attachment in relevant documents and/or submitted as a standalone report.

Job-site record keeping for all remedial work will be appropriately documented. These records will be maintained on-Site at all times during the project and be available for inspection by NYSDEC and NYSDOH staff.

5.4.4 Complaint Management Plan

A log of any complaints from the public regarding nuisance or other Site conditions will be compiled by a member of the AKRF project team, as applicable. All complaints will be documented in the daily reports.

5.4.5 Deviations from the Remedial Action Work Plan

Any deviations from this RAWP will require prior approval from NYSDEC. The deviations will be recorded in both the monthly progress reports and in the FER. At a minimum, the report of the deviations will include the following:

- Reasons for deviating from the approved RAWP;
- Approval process to be followed for changes/editions to the RAWP; and
- Effect of the deviations on overall remedy.

6.0 PRE-DESIGN INVESTIGATION

6.1 Soil Sampling

A Pre-Design Investigation (PDI) will be conducted to further refine the extent of remedial excavation of the PCE concentrations in soil above the PGWSCOs detected at sample location RI-SB-11_4-6_20260428 and to collect soil vapor samples to aid in designing the contingent SVES. Five soil borings (PDI-SB-01 through PDI-SB-05) will be advanced around RI-SB-11 and one soil boring (RI-SB-11A) will be advanced immediately adjacent to RI-SB-11 using a Geoprobe® direct-push probe (DPP), as shown on Figure 11. Soil samples will be collected from PDI-SB-01 through PDI-SB-05 every 2 feet between grade and immediately above the water table. Soil samples will be collected from RI-SB-11A every 2 feet between 6 feet (deepest sample depth collected during the RI) and the water table. Samples collected from PDI-SB-01 through PDI-SB-05 from 0 to 6 feet will be analyzed immediately by the laboratory and the remaining samples will be placed on hold, pending the results of the 0 to 6 feet samples. Samples collected from RI-SB-11A at 6 to 8 feet will be analyzed immediately by the laboratory and the remaining samples will be placed on hold, pending the results of the initial sample. Soil samples will be submitted to an NYSDOH ELAP-certified laboratory for analysis of CVOCs by EPA Method 8260 with Category B deliverables. In addition, one trip blank, field blank, blind duplicate, and MS/MSD samples will be submitted to the laboratory for every 20 parent samples submitted in accordance with the QAPP. Samples will be shipped to the laboratory with appropriate COC documentation.

At all boring locations, continuous soil cores will be collected in 5-foot long, 2-inch diameter, stainless steel macrocore piston rod samplers fitted within internal, dedicated acetate liners. Soil samples will be inspected by AKRF field personnel for evidence of contamination (e.g., odors, staining, etc.), screened for the presence of VOCs with a calibrated PID, and logged using the modified Burmister soil classification system. After each boring is completed, the boreholes will be filled with on-site materials (if not noticeably contaminated) in accordance with Section 3.3(e) of DER-10. Soil cuttings displaying field evidence of contamination will be containerized in properly labeled Department of Transportation (DOT)-approved 55-gallon drums for off-site disposal at a permitted facility. Boreholes that require drill cutting disposal will be filled with bentonite chips (hydrated). Disposable sampling equipment that comes in contact with environmental media will be double bagged and disposed of as municipal trash as non-hazardous refuse.

6.2 Soil Vapor Sampling

To aid in the design of the SVE system, soil vapor samples will be collected at two depth intervals from 12 sample locations, as shown on Figure 11. The soil vapor point clusters will be constructed using two individual dedicated 6-inch stainless steel mesh sample points connected to polyethylene tubing installed at 15 feet and 28 feet below grade (approximately 2 feet above the water table), for a total of 28 individual points. Each sample point will be backfilled with No. 2 filter sand to 1-foot above the screened interval, followed by hydrated bentonite until the start of the next sampling point interval. Sample locations were selected to obtain representative vertical coverage across the Site and support the forthcoming remedial design.

The soil vapor samples will be collected using 1-Liter Tedlar® bags. The soil vapor samples will be analyzed for VOCs by EPA Method TO-15 by a NYSDOH ELAP-certified laboratory with Category B deliverables. Samples will be shipped to the laboratory with appropriate COC documentation.

6.3 Groundwater Treatment Bench-Scale Treatability Study

As further discussed in Section 11.1, a bench-scale treatability study will be performed during the PDI to evaluate the effectiveness of various proposed oxidant and reductant mixes to oxidize or reduce CVOCs, primarily PCE and TCE, present in shallow groundwater. The bench scale study will test the effectiveness of four separate oxidants including modified Fenton's reagent (MFR), carbohydrate activated sodium persulfate (CHASP), surfactant enhanced CHASP (S+CHASP), and sodium permanganate. The bench scale study will also test the effectiveness of two separate reducing agents including zero valent iron (ZVI), and ZVI and emulsified vegetable oil (ZVI+EVO). Two different experiment environments will be utilized in the study: ambient air environments will be used for the chemical oxidation experiments and oxygen-free environments will be used for the reduction experiments.

The findings from the PDI, including a full description of the in-situ groundwater treatment program, SVE, and SSDS designs will be provided as part of a separate Remedial Design Document and submitted to NYSDEC and NYSDOH for review and approval prior to implementation.

7.0 REMEDIAL ACTION: MATERIAL REMOVAL FROM SITE

Removal of materials from the Site will include: (1) paved asphalt and/or concrete surfaces and/or debris; (2) decommissioning of existing groundwater monitoring wells in accordance with NYSDEC CP-43; (3) all contaminated soil/fill in the upper 15 feet below ground surface (bgs) within the proposed new building cellar footprint to attain a Track 2 cleanup in this area of the Site; (4) a minimum of 2 feet bgs cut and all source material (soil/fill above PGWSCOs for CVOCs), including a PCE hotspot around RI-SB-11, to attain a Track 4 cleanup in all other areas of the Site; and, (5) removal of any unknown petroleum storage tanks, fill ports, vent pipes, and other associated structures, if encountered during excavation.

Based on the information obtained from the RI and previous investigations, approximately 9,475 tons of soil is estimated to be removed as part of the remedy and bedrock is not anticipated to be encountered. The proposed areas of remedial excavation are shown on Figure 12.

Any excavated contaminated soil will be removed from the Site and disposed of at a facility(ies) licensed to accept the material. Proposed disposal facilities will be selected after completing the waste characterization sampling. The proposed disposal facilities will be submitted to NYSDEC for review and approval prior to off-site disposal.

7.1 Soil Cleanup Objectives

The applicable SCOs for this Site are the PGWSCOs for CVOCs only, and Track 2/Track 4 RRSCOs for all other VOCs, SVOCs, PCBs, pesticides, and metals. Soil and materials management on-site and off-site will be conducted in accordance with the SMMP as described below. Any petroleum storage tank closures will, at a minimum, conform to the criteria defined in DER-10.

All soil samples that exceed the UUSCOs and RRSCOs are presented in Tables 2 through 7. Exceedances of the applicable standards are shown on Figures 6A through 6K.

7.2 Remedial Performance Evaluation (Post Excavation End-Point Sampling)

7.2.1 End-Point Sampling Frequency

Based on the sampling frequency outlined in Section 5.4 of DER-10, documentation sampling for the remedial excavation will include one bottom soil sample for every 900 square feet across the Site and one sidewall sample for every 30 linear feet around the perimeter of the Site, except where SOE is located. Based on the size of the proposed remedial excavation area at the Site, approximately 55 post-excavation endpoint samples will be collected for laboratory analysis at the approximate locations shown on Figure 13.

Endpoint sampling will occur around any additional AOCs identified during the RA based on the sampling frequency outlined in Section 5.4 of DER-10.

7.2.2 Methodology

Documentation samples will be collected using a decontaminated stainless steel sampling trowel or hand auger, or a dedicated wooden tongue depressor and placed directly into pre-sterilized, laboratory-issued containers.

The sample containers will be properly labeled and immediately placed on ice within a cooler. Sample time, date, and location will be recorded on a chain of custody. The samples will be submitted to an ELAP-certified laboratory for analysis of TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, pesticides by EPA Method 8081, PCBs by EPA Method 8082, TAL metals by EPA Method 6000/7000 series, 1,4-dioxane by EPA

Method 8270, and PFAS compounds by EPA Method 1633A. The laboratory will follow the NYSDEC Analytical Services Protocol (ASP) dated 1995 using NYSDEC ASP Category B deliverables. Further details regarding the specific sampling methodology and analytical procedures are presented in the QAPP, included as Appendix F.

7.2.3 Reporting of Results

The analytical results of documentation samples will be tabulated and compared to the UUSCOs and RRSCOs. The tabulated data and the laboratory reports will be included in the FER. All analytical data will be submitted to NYSDEC in electronic data deliverable (EDD) format via the Environmental Quality Information System (EQuIS™).

7.2.4 QA/QC

The QA objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the QC acceptance of the analytical protocol. The accuracy, precision, and completeness requirements will be addressed by the laboratory for all data generated. Collected samples will be appropriately packaged, placed in coolers, and shipped or delivered directly to the analytical laboratory by the laboratory's courier service. Samples will be containerized in appropriate laboratory provided glassware and shipped in plastic coolers. Samples will be preserved to maintain a temperature of 4° C. Decontamination of non-dedicated sampling equipment will consist of the following: gently tap or scrape to remove adhered soil; rinse with tap water; wash with Alconox® detergent solution and scrub; rinse with tap water; rinse with distilled or deionized water; prepare field blanks by pouring distilled or deionized water in laboratory provided containers.

One trip blank, one field blank, one blind duplicate sample, and one matrix spike/matrix spike duplicate (MS/MSD) will be collected per every 20 samples per media and submitted for analysis during the documentation sampling event. The field blank(s), blind duplicate(s), and MS/MSD(s) will include all parameters included in the sample analysis while the trip blank will be analyzed for VOCs only. Additional QA/QC information is provided in the QAPP, included as Appendix F.

7.2.5 DUSR and EDDs

Lori A. Beyer of L.A.B. Validation Corp., a qualified third-party data validator, will review the documentation sample laboratory reports and prepare a DUSR, for all samples collected under this RAWP. The DUSR will be discussed and included as an appendix to the FER. The validator's resume is included in the QAPP provided as Appendix F.

Validated EDDs will be submitted to NYSDEC via EQuIS™.

7.2.6 Reporting of End-Point Data in FER

Chemical labs used for all end-point sample results and contingency sampling will be NYSDOH ELAP certified.

End point sampling, including bottom and side-wall sampling, will be performed in accordance with DER-10 sample frequency requirements. Side-wall samples will be collected a minimum of every 30 linear feet. Bottom samples will be collected at a rate of one for every 900 square feet from the base of the remedial excavation. The FER will provide a tabular and map summary of all end-point sample results and exceedances of SCOs.

7.3 Estimated Material Removal Quantities

The estimated quantity of soil/fill to be removed from the Site based on the proposed dual Track 2/Track 4 remedial excavation is 9,475 tons. The estimated quantity of soil to be imported into the Site for backfill and cover soil is 1,100 cubic yards. Soil/fill reuse is not anticipated, but may be considered, as part of the remedial action. The proposed remedial excavation is shown on Figure 12 and summarized below in Table H.

Table H
Remedial Excavation Location Summary

Location On-Site	Approximate Excavation Depth (feet bgs)	Approximate Excavation Volume (cubic yards)	Approximate Excavation Volume (tons)
Track 2 Area	15	5,420	8,125
Track 4 Area	2	815	1,225
CVOC Hotspot	10	85	125
			Total = 9,475 tons

7.4 Soil/Materials Management Plan

The SMMP describes the procedures to be performed during the handling of soil/fill materials on-site during all intrusive work.

7.4.1 Soil Screening Methods

Visual, olfactory and PID soil screening and assessment will be performed by a qualified environmental professional or experienced field geologist or other scientist under the direction of the RE during all remedial and development excavations into known or potentially contaminated material. Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during the remedy and during development phase, such as excavations for foundations and utility work, prior to issuance of the COC.

All primary contaminant sources (including but not limited to tanks and hotspots) identified during waste characterization, previous subsurface investigations, and Remedial Action will be surveyed by a surveyor licensed to practice in the State of New York or located with a GPS survey to obtain exact coordinates on the Site. This information will be provided on maps in the FER.

Screening will be performed by qualified environmental professionals, an experienced field geologist, or other scientist. Resumes for all anticipated personnel responsible for field screening (i.e., those representing the Remedial Engineer) of invasive work for unknown contaminant sources during remediation and development work are provided in the QAPP included as Appendix F.

7.4.2 Stockpile Methods

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. At a minimum, a storm event should be considered a rainfall of three inches or greater in 12 hours. Judgement should be used to evaluate water infiltration, nearby waterbodies where runoff is likely, and engineering controls that may be affected.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Soil stockpiles will be continuously encircled with silt fences. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Water will be available on-site at suitable supply and pressure for use in dust control.

7.4.3 Materials Excavation and Load Out

The RE or designated personnel under her supervision, will oversee all invasive work and the excavation and load-out of all excavated material. The Applicant and its contractors are solely responsible for safe execution of all invasive and other work performed under this RAWP.

The presence of utilities and easements on the Site will be investigated by the RE to ensure that no risk or impediment to the planned work under this RAWP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate federal, state, local, and NYSDOT requirements (and all other applicable transportation requirements). A truck wash will be operated on-site. The RE or designated personnel under her supervision will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the remedial construction is complete. Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site sediment tracking.

The RE, or her designated personnel, will be responsible for ensuring that all egress points for truck and equipment transport from the Site will be clean of dirt and other materials derived from the Site during Site remediation and development. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

The Applicant and associated parties preparing the remedial documents submitted to NYSDEC and NYSDOH, and parties performing this work, are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, and for structures that may be affected by excavations (such as building foundations and bridge footings).

The RE will ensure that Site development activities will not interfere with, or otherwise impair or compromise, remedial activities proposed in this RAWP.

All contaminated materials and structures that may be remediated (i.e., USTs, vaults and associated piping, transformers, etc.) will be removed and endpoint sampling completed before excavations related to Site development commence proximal to the hotspot or structure.

Development-related grading cuts and fills will not be performed without NYSDEC approval and will not interfere with, or otherwise impair or compromise, the performance of remediation required by this plan. Mechanical processing of historical fill and contaminated soil on-Site is prohibited.

All primary contaminant sources (including but not limited to tanks and hotspots) identified during Site characterization, subsurface investigations, and Remedial Action will be surveyed by a surveyor licensed to practice in the State of New York or located with a GPS

survey to obtain exact coordinates on the Site. The survey information will be shown on maps to be reported in the FER.

7.4.4 Materials Transport Off-Site

All transport of materials will be performed by licensed haulers in accordance with appropriate local, state, and federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Proposed truck transport routes are as follows:

- Trucks entering the Site will take I-278E; take Exit 5 toward Astoria Boulevard South/Truck I-278; turn right onto 31st Street and continue to the Site.
- Trucks exiting the Site will head north on 31st Street and turn left to merge onto I-278 W/RFK Bridge.

All trucks loaded with Site materials will exit the vicinity of the Site using only these approved truck routes. Proposed in-bound and out-bound truck routes to the Site are shown on Figure 10. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the Site. Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development. Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

7.4.5 Materials Disposal Off-Site

For any materials to be disposed of off-site, based on the waste characterization results, a properly permitted waste disposal facility will be selected for off-site disposal. The disposal information will be reported to the NYSDEC Project Manager prior to commencing the disposal activities. The total quantity of material expected to be disposed off-Site is 9,475 tons, and specific waste streams will be determined based on the waste characterization results.

Any soil/fill/solid waste excavated and removed from the Site will be treated as contaminated and regulated material and will be disposed in accordance with all local, State (including 6 NYCRR Part 360) and federal regulations. If disposal of soil/fill from this Site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to NYSDEC's Project Manager. Unregulated off-site management of materials from this Site is prohibited without formal NYSDEC approval. Material that does not meet Track 1 UUSCOs is prohibited from being taken to a New York State recycling facility (6 NYCRR Part 360-15 Registration Facility).

The following documentation will be obtained and reported by the RE for each disposal location used in this project to fully demonstrate and document that the disposal of material derived from the Site conforms with all applicable laws: (1) a letter from the RE or BCP Volunteer to the receiving facility describing the material to be disposed and requesting formal written acceptance of the material. This letter will state that material to be disposed is contaminated material generated at an environmental remediation Site in New York State. The letter will provide the project identity and the name and phone number of the RE. The letter will include as an attachment a summary of all chemical data for the material being transported (including waste characterization data); and (2) a letter from all receiving facilities stating it is in receipt of the correspondence (above) and is approved to accept the material. These documents will be included in the FER.

Non-hazardous fill material and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6 NYCRR Part 360-1.2. Fill and contaminated soils from the Site are prohibited from being disposed at Part 360-16 Registration Facilities (also known as Soil Recycling Facilities).

Soils that are contaminated but non-hazardous and are being removed from the Site are considered by the Division of Materials Management (DMM) in NYSDEC to be Construction and Demolition (C&D) materials with contamination not typical of virgin soils. These soils may be sent to a permitted Part 360 landfill. They may be sent to a permitted C&D processing facility without permit modifications only upon prior notification of NYSDEC Region 2 DMM. This material is prohibited from being sent or redirected to a Part 360-16 Registration Facility. In this case, as dictated by DMM, special procedures will include, at a minimum, a letter to the C&D facility that provides a detailed explanation that the material is derived from a DER remediation Site, that the soil material is contaminated and that it must not be redirected to on-site or off-site Soil Recycling Facilities. The letter will provide the project identity and the name and phone number of the RE. The letter will include as an attachment a summary of all chemical data for the material being transported.

The FER will include an accounting of the destination of all material removed from the Site during this Remedial Action, including excavated soil, contaminated soil, historic fill, solid waste, and hazardous waste, non-regulated material, and fluids. Documentation associated with disposal of all material must also include records and approvals for receipt of the material. This information will also be presented in a tabular form in the FER. Bill of Lading system or equivalent will be used for off-site movement of non-hazardous wastes and contaminated soils. This information will be reported in the FER.

Hazardous wastes derived from on-site will be stored, transported, and disposed of in full compliance with applicable local, state, and federal regulations.

Appropriately licensed haulers will be used for material removed from this Site and will be in full compliance with all applicable local, state, and federal regulations.

Waste characterization will be performed for off-site disposal in a manner suitable to the receiving facility and in conformance with applicable permits. Sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the FER. All data available for soil/material to be disposed at a given facility must be submitted to the disposal facility with suitable explanation prior to shipment and receipt.

7.4.6 Materials Reuse On-Site

Material reuse is not anticipated as part of the remedial action. However, if material reuse is planned, chemical criteria for on-site reuse of material must be approved by NYSDEC prior to reuse. Materials planned for reuse (if any) will be segregated and stockpiled from materials slated for off-site disposal. Stockpiles will be placed on and covered with polyethylene sheeting. The stockpiled soil will be sampled and analyzed in accordance with Table 5.4(e)10 on page 161 of DER-10 Technical Guidance for Investigation and Remediation. All materials to be reused on the Site will comply with the RRSCOs. The RE will ensure that procedures defined for materials reuse in this RAWP are followed and that unacceptable material will not remain on-site.

A "Request to Import/Reuse Fill Material" form will be filed with the NYSDEC project manager for review and approval prior to material reuse on the Site. A copy of the form is presented in Appendix K.

Demolition material (C&D) will not be reused on-site. Concrete crushing or processing on-site is prohibited. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the Site is prohibited for reuse on-site. Contaminated on-site material, including historic fill and contaminated soil, removed for grading or other purposes will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines. This will be expressed in the final Site Management Plan (SMP).

7.4.7 Fluids Management

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable local, state, and federal regulations. Liquids discharged into the New York City sewer system will be addressed through approval by NYCDEP.

Dewatered fluids will not be recharged back to the land surface or subsurface of the Site. Dewatering fluids will be managed off-site. Discharge of water generated during remedial construction to surface waters (i.e., a local pond, stream or river) is prohibited without a SPDES permit.

7.4.8 Demarcation

After the completion of soil removal and any other invasive remedial activities and prior to backfilling, a land survey will be performed by a New York State licensed surveyor. The survey will define the top elevation of residual contaminated soils. A physical demarcation layer, consisting of orange snow fencing material or equivalent material will be placed on this surface to provide a visual reference. This demarcation layer will constitute the top of the 'Residuals Management Zone', the zone that requires adherence to special conditions for disturbance of contaminated residual soils defined in the SMP. The survey will measure the grade covered by the demarcation layer before the placement of cover soils, pavement and sub-soils, structures, or other materials. This survey and the demarcation layer placed on this grade surface will constitute the physical and written record of the upper surface of the 'Residuals Management Zone' in the SMP. A map showing the survey results will be included in the FER and the SMP.

7.4.9 Backfill from Off-Site Sources

All materials proposed for import onto the Site will be approved by the Remedial Engineer and will be in compliance with provisions in this RAWP prior to receipt at the Site.

Material from industrial sites, spill sites, other environmental remediation sites or other potentially contaminated sites will not be imported to the Site. Solid waste will not be imported onto the Site.

The FER will include the following certification by the Remedial Engineer: "I certify that all import of soils from off-Site, including source evaluation, approval and sampling, has been performed in a manner that is consistent with the methodology defined in the Remedial Action Work Plan".

All imported soils will meet NYSDEC approved backfill or cover soil quality objectives for this Site. These NYSDEC approved backfill or cover soil quality objectives are the lower of the protection of groundwater or the protection of public health soil cleanup objectives for RRSCOs as set forth in Table 375-6.8(b) of 6 NYCRR Part 375 and listed in Table 17. Non-compliant soils will not be imported onto the Site without prior approval by NYSDEC. Nothing in the approved RAWP or its approval by NYSDEC should be construed as an approval for this purpose.

Soils that meet 'general fill' requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC. Nothing in this RAWP should be construed as an approval for this purpose.

A "Request to Import/Reuse Fill Material" form will be filed with the NYSDEC project manager for review and approval prior to import to the site. A copy of the form is presented in Appendix K.

7.4.10 Stormwater Pollution Prevention

A SWPPP will be prepared and approved by NYCDEP. Soil and erosion sediment controls including barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the RAWP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the remedial construction area.

7.4.11 Contingency Plan

If USTs or other previously unidentified contaminant sources are found during on-Site remedial excavation or development related construction, sampling will be performed on product, sediment and surrounding soils, etc. in accordance with DER-10. Chemical

analytical work will be for full scan parameters (TAL metals, TCL VOCs, TCL SVOCs, TCL pesticides, PCBs, and PFAS). Analyses will not be otherwise limited without NYSDEC approval.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. These findings will be also included in daily and periodic electronic media reports.

7.4.11.1 Extreme Storm Preparedness and Response Contingency Plan

Damage from flooding or storm surge can include dislocation of soil and stockpiled materials, dislocation of site structures and construction materials and equipment, and dislocation of support of excavation structures. Damage from wind during an extreme storm event can create unsafe or unstable structures, damage safety structures and cause downed power lines creating dangerous site conditions and loss of power. In the event of emergency conditions caused by an extreme storm event, the Volunteer will undertake the following steps for site preparedness prior to the event and response after the event.

Storm Preparedness

Preparations in advance of an extreme storm event will include the following: containerized hazardous materials and fuels will be removed from the property; loose materials will be secured to prevent dislocation and blowing by wind or water; heavy equipment such as excavators and generators will be removed from excavated areas, trenches and depressions on the property to high ground or removed from the property; an inventory of the property with photographs will be performed to establish conditions for the site and equipment prior to the event; stockpile covers for soil and fill will be secured by adding weights such as sandbags for added security and worn or ripped stockpile covers will be replaced with competent covers; stockpiled hazardous wastes will be removed from the property; stormwater management systems will be inspected and fortified, including, as necessary: clean and reposition silt fences, hay bales; clean storm sewer filters and traps; and secure and protect pumps and hosing.

Storm Response

At the conclusion of an extreme storm event, as soon as it is safe to access the property, a complete inspection of the property will be performed. A site inspection report will be submitted to NYSDEC at the completion of site inspection and after the site security is assessed. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. Damage from storm conditions that result in acute public safety threats, such as downed power lines or imminent collapse of buildings, structures or equipment will be reported to public safety authorities via appropriate means such as calling 911.

Petroleum spills will be reported to NYSDEC within 2 hours of identification and consistent with State regulations. Public safety structures, such as construction security fences will be repaired promptly to eliminate public safety threats. Debris will be collected and removed.

Dewatering will be performed in compliance with existing laws and regulations and consistent with emergency notifications, if any, from proper authorities. Eroded areas of soil including unsafe slopes will be stabilized and fortified. Dislocated materials will be collected and appropriately managed. Support of excavation structure will be inspected and

fortified as necessary. Impacted stockpiles will be contained and damaged stockpile covers will be replaced. Stormwater control systems and structures will be inspected and maintained as necessary.

If soil or fill materials are discharged off site to adjacent properties, property owners and NYSDEC will be notified, and corrective measure plan designed to remove and clean dislocated material will be submitted to NYSDEC and implemented following approval by NYSDEC and granting of site access by the property owner. Impacted offsite areas may require characterization based on site conditions, at the discretion of NYSDEC.

If onsite petroleum spills are identified, a qualified environmental professional will determine the nature and extent of the spill and report to NYSDEC's spill hotline at (800) 457-7362 within statutory defined timelines. If the source of the spill is ongoing and can be identified, it should be stopped if this can be done safely. Potential hazards will be addressed immediately, consistent with guidance issued by NYSDEC.

Storm Response Reporting

A site inspection report will be submitted to NYSDEC at the completion of site inspection. An inspection report will be used for this purpose. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. The site inspection report will be sent to the NYSDEC project manager and will include the site name, address, tax block and lot, site primary and alternate contact name and phone number.

Damage and soil release assessment will include: whether the project had stockpiles; whether stockpiles were damaged; photographs of damage and notice of plan for repair; report of whether soil from the site was dislocated and whether any of the soil left the site; estimates of the volume of soil that left the site, nature of impact, and photographs; description of erosion damage; description of equipment damage; description of damage to the remedial program or the construction program, such as damage to the support of excavation; presence of onsite or offsite exposure pathways caused by the storm; presence of petroleum or other spills and status of spill reporting to NYSDEC; description of corrective actions; schedule for corrective actions.

This report should be completed and submitted to NYSDEC project manager with photographs within 24 hours of the time of safe entry to the property after the storm event.

7.4.12 Community Air Monitoring Plan

A Site-specific HASP and a CAMP have been prepared for this Site and are enclosed as Appendix G and Appendix H, respectively. Community air monitoring and real-time air monitoring at the perimeter of the exclusion zone will be conducted during all intrusive Site activities in accordance with the NYSDOH Generic CAMP and as described in Appendix H. The CAMP requirements may be modified in consultation with NYSDEC and NYSDOH for activities involving minimal soil disturbance (e.g., site preparation, pile installation, etc.). All readings will be recorded and available for NYSDEC and NYSDOH personnel to review. The CAMP station locations may vary depending on wind direction and location of work activities. A map showing the proposed locations of CAMP stations is shown on Figure 9. Mobile air monitoring using handheld equipment will be conducted around workers and locations will vary based on the work zone(s).

As the Site is located within 20 feet of potentially occupied structures, a Special Requirements CAMP will be implemented. The fixed CAMP stations will be located near

potentially exposed individuals. Commercial-use buildings are located west-adjacent to the Site.

The additional CAMP provisions included in the Special Requirements CAMP are as follows:

- Use of engineering controls such as vapor/dust barriers or special ventilation devices will be considered; and
- Special consideration will be given to implementing planned activities when potentially exposed populations are at a minimum.

Exceedances observed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers and included in the Daily Report.

7.4.13 Odor, Dust and Nuisance Control Plan

The FER will include the following certification by the Remedial Engineer: "I certify that all invasive work during the remediation and all invasive development work were conducted in accordance with dust and odor suppression methodology defined in the Remedial Action Work Plan."

Odor Control Plan

This odor control plan is capable of controlling emissions of nuisance odors off-site. Specific odor control methods to be used on a routine basis will include the use of a PID to screen for VOCs and olfactory observations by a field technician. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified within 24 hours of all odor events and of all other complaints about the project. Implementation of all odor controls, including the halt of work, will be the responsibility of the Volunteer's RE, who is responsible for certifying the FER.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils (such as BioSolve® Pinkwater or RusFoam®). If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

Dust Control Plan

A dust suppression plan that addresses dust management during invasive on-Site work will include, at a minimum, the items listed below:

- Water will be available on-site at suitable supply and pressure for use in dust control.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.

- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-Site roads will be limited in total area to minimize the area required for water spraying.

Other Nuisances

A plan for rodent control will be developed and utilized by the contractor prior to and during Site clearing and Site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work and will conform, at a minimum, to NYCDEP noise control standards.

8.0 RESIDUAL CONTAMINATION TO REMAIN ON-SITE

Since residual contaminated soil, groundwater, and/or soil vapor may exist beneath the Site after the remedy is complete, ECs and ICs are necessary and required pursuant to 6 NYCRR § 375-1.8(h) to protect human health and the environment and to achieve the RAOs. These ECs and ICs are described hereafter. Long-term management of EC/ICs and of residual contamination will be executed under a Site-specific SMP that will be developed and included as an appendix of the FER.

The Controlled Property (the Site) will have four ECs, consisting of a site cover system, an active SSDS, in-situ groundwater treatment, and a contingency SVES. Each of these engineering controls is necessary to eliminate or prevent exposure pathways from residual contamination to human health and the environment, as required by the source removal and control hierarchy of 6 NYCRR § 375-1.8(c). A conceptual SSDS layout, conceptual SVES layout and proposed temporary groundwater injection point layout are provided on Figures 14, 15, and 16, respectively. Full design details regarding the SSDS, contingency SVES, and groundwater injections will be provided in a separate Remedial Design Document.

The FER will report residual contamination on the Site in tabular and map form. This will include presentation of exceedances of both Track 1 and Track 4 sites.

9.0 ENGINEERING CONTROL: SITE COVER SYSTEM

A site cover system is necessary and will be installed and maintained in the Track 4 portion of the Site to prevent direct contact with any residual contaminated soil and to eliminate exposure pathways, as required by 6 NYCRR § 375-3.8(e)(4)(iii) and the Cover System Requirements of 6 NYCRR § 375-3.2(e). The proposed site cover system will be composed of: (1) a minimum of 2 feet of clean fill material placed in landscaped and permeable areas underlain by a demarcation barrier; (2) concrete building slabs (5-inch thick concrete slab in the cellar, 3-inch thick concrete rat slab in the crawl space, and 10-inch thick concrete slab in the first floor) underlain by a minimum 20-mil vapor barrier membrane, which doubles as a demarcation barrier, in the slab-on-grade portion of the proposed building; and (3) paved surfaces in roadway and sidewalk areas. The site cover system is a permanent engineering control necessary to achieve the RAOs and qualify for a Certificate of Completion, and the quality and integrity of the system will be inspected at defined, regular intervals. Inspections of the site cover system will be detailed in the SMP. The proposed site cover system plan is provided as Figure 17.

The vapor barrier will be installed in accordance with the manufacturer's installation procedures. Prior to pouring the concrete slab, the installed vapor barrier will be inspected and photographed. A set of the installation photos in addition to the "as built" drawings will be included in the FER. A Soil Management Plan will be included in the SMP and will outline the procedures to be followed in the event that the site cover system and any underlying residual contamination are disturbed after the RA is complete. Maintenance of the site cover system will be described in the SMP in the FER.

10.0 ENGINEERING CONTROL: SUB-SLAB DEPRESSURIZATION SYSTEM

10.1 Sub-Slab Depressurization System (SSDS)

An active SSDS will be installed to mitigate the potential for sub-slab vapor intrusion into the proposed new buildings. The SSDS will induce a negative pressure (i.e., vacuum) beneath the proposed building slab. Slotted piping will extend horizontally throughout the building footprint and will be connected, via solid aboveground piping, to a roof-mounted blower(s) and ultimately the effluent vapors will be exhausted to the atmosphere via a discharge stack(s). The design also includes the installation of a sufficient number of vacuum monitoring points to verify that there is negative pressure underneath the entire building slab.

The SSDS layout is subject to change depending on any changes to the building plans. The proposed SSDS layout and standard design details are further discussed below. A full description of the proposed SSDS will be provided as part of a separate Remedial Design Document and submitted to NYSDEC and NYSDOH for review and approval prior to implementation. Figure 14 shows the conceptual layout of the SSDS. A conceptual process and instrumentation flow diagram is included as Figure 18.

10.1.1 SSDS Components

The proposed SSDS to be installed as part of the Site remedy consists of, but is not limited to:

1. 0.02-inch slotted and solid, 4-inch diameter Schedule 40 PVC pipe lengths beneath the building slab;
2. A pipe manifold, which combines the PVC pipe sections into a 6-inch metal riser pipe;
3. A riser pipe, which extends from the manifold to the roof of the building;
4. A roof-mounted blower with a shut-off alarm connected to a local alarm panel installed in the building;
5. One rooftop exhaust stack fitted with a rain cap, terminating at least 7 feet above the finished roof;
6. Communication and pipe sleeves through concrete foundation elements;
7. A minimum 6-inch thick gas-permeable aggregate stratum underlain by a non-woven geotextile fabric beneath the entire SSDS treatment area;
8. Condensate drains, as necessary;
9. Five vacuum monitoring points (VMPs) installed beneath the building slab;
10. Accessories, including: cleanouts, sample ports, vacuum indicators/pressure gauges, flow meters, butterfly valves, and differential pressure switches; and
11. A control panel equipped with a telemetry system to notify select personnel of alarm conditions.

During construction, non-woven geotextile fabric overlain by a minimum 6-inch layer of ¾-inch gas permeable aggregate (GPA) stone bedding meeting the gradation requirements of #5 aggregate in ASTM C33 will be installed below the entire building slab, and under, around, and above all SSDS piping to promote favorable conditions for ventilation of vapors. Five VMPs will be installed to monitor and confirm the presence of induced

vacuum across the building slab. A minimum 20-mil vapor barrier, a construction component, will be installed above the GPA layer under the building slab to enhance vacuum capabilities beneath the building and further assist in the prevention of sub-slab vapor infiltration into indoor air.

An appropriately-sized blower will be installed in the northeastern corner of the building roof or at another location that complies with NYSDOH guidance and NYC Mechanical Code. The SSDS effluent vapors will exit the blower via a discharge stack terminating at least 7 feet above the finished roof and at least 25 feet away from any air intakes or windows, in accordance with local and state building codes.

10.1.2 SSDS Confirmatory Testing

SSDS startup, including balancing the system and the collection of vacuum readings at the five VMPs, will be conducted to assess induced vacuum conditions under the building slab and determine the efficacy of the SSDS. Adequate sub-slab vacuum will be determined via VMP vacuum readings of 0.004 inH_2O. If sub-slab vacuum readings indicate minimum vacuum readings less than the target operating conditions, the SSDS will be rebalanced by adjusting the applied vacuum and air flow rate conditions at the individual SSDS lines until acceptable induced vacuum conditions are observed at each of the VMPs. Additionally, indoor air sampling and sub-slab soil vapor sampling will be conducted approximately 30 days after SSDS startup is complete. This sampling will be performed under the SMP, after building superstructure is complete and aboveground components of the SSDS are fully installed. Locations of proposed indoor air samples will be included in the Remedial Design Report.

SSDS operations and maintenance requirements will be outlined in the SMP. As-built drawings, diagrams, calculations, manufacturer documentation for the SSDS will be presented in the FER.

11.0 ENGINEERING CONTROL: GROUNDWATER TREATMENT PROGRAM

Based on the analytical results of the RI, groundwater and soil beneath the Site is contaminated with chlorinated solvent-related VOCs. PCE was detected in groundwater at concentrations ranging from 15 to 860 µg/L, above the NYSDEC AWQSGV of 5 µg/L, with elevated concentrations detected in the eastern, northeastern, and southwestern portions of the Site. To enhance attenuation of the chlorinated solvent-related contamination, and address the potential for contaminated groundwater to migrate off-site, an in-situ groundwater treatment program will be implemented at the Site.

11.1 Bench-Scale Treatability Study

A bench-scale treatability study will be performed by In-Situ Oxidative Technologies, Inc. (ISOTEC) of Lawrenceville, New Jersey to evaluate the effectiveness of various proposed oxidant and reductant mixes to oxidize or reduce CVOCs, primarily PCE and TCE, present in shallow groundwater. The bench scale study will test the effectiveness of four separate oxidants including modified Fenton's reagent (MFR), carbohydrate activated sodium persulfate (CHASP), surfactant enhanced CHASP (S+CHASP), and sodium permanganate. The bench scale study will also test the effectiveness of two separate reducing agents including zero valent iron (ZVI), and ZVI and emulsified vegetable oil (ZVI+EVO). Two different experiment environments will be utilized in the study: Ambient air environments will be used for the chemical oxidation experiments and oxygen-free environments will be used for the reduction experiments. To facilitate the treatability study, four groundwater samples and four soil samples will be collected from the proposed treatment area and submitted to ISOTEC for use during the treatability study. Following the treatability study, a full description of the in-situ groundwater treatment program, including treatment areas, injection locations, treatment technology, and monitoring protocols, will be provided as part of a separate Remedial Design Document and submitted to NYSDEC and NYSDOH for review and approval prior to implementation.

11.2 In-Situ Injection Events

General Details

The groundwater treatment program will target four areas throughout the Site with an approximately 9,000-square foot total treatment area including three (3) groundwater treatment zones, each consisting of nine injection wells, and one (1) groundwater treatment transect consisting of five additional injection wells positioned in a line that is perpendicular to the presumed groundwater flow direction, and located in a portion of the Site that is not covered by or immediately adjacent to any of the hotspot groundwater treatment zones, to treat any downgradient groundwater.

The proposed treatment program will consist of a construction-phase injection event, followed by the installation of a permanent injection system for potential future (contingency) injection events. The need for post-construction injection events will be assessed as part of the FER. The proposed treatment areas and groundwater monitoring well locations are shown on Figure 16. The construction-phase ISCO event will be conducted after excavation of source removal in shallow soil during construction. The construction-phase event will occur within the proposed treatment zones in phases using temporary injection well points installed with a direct push drill rig. The construction-phase injection event will be conducted using temporary 1-inch diameter PVC injection wells, and will occur after contaminant mass removal in soil through excavation and off-site disposal. The permanent contingency ISCO injection system will consist of permanent 1-inch diameter PVC injection wells connected to dedicated lengths of subsurface ½-inch diameter HDPE tubing, which will connect to an injection tube manifold, located within the future Site building or

access vault. The radius of influence (ROI) around each injection point is anticipated to be approximately 10 feet. The treatment interval will extend from the top of the groundwater surface (approximately 30 to 35 feet below sidewalk grade) to approximately 50 feet below sidewalk grade. The proposed amendments will be mobilized to the Site in totes or 55-gallon drums, and potable water from the Site will be used to further dilute the reagents to the target concentration and injection volume. A permit from the FDNY will be obtained to allow for the transportation and temporary storage of the chemicals on-site.

During both the construction-phase, and potential post-construction groundwater treatment events, downgradient Site boundary groundwater conditions will be monitored through monitoring wells installed on the west and southwestern Site boundaries, along 31st Street. The locations of the proposed groundwater treatment injection wells are shown on Figure 16.

All groundwater treatment will occur in accordance with all federal, state, and local laws and guidelines, including proper notification of relevant governmental and regulatory agencies. These proposed details notwithstanding, additional details or potential changes to the groundwater treatment program will be provided in the Remedial Design Document, or other future communication to NYSDEC.

12.0 ENGINEERING CONTROL: CONTINGENT SOIL VAPOR EXTRACTION SYSTEM

12.1 Contingent Soil Vapor Extraction System (SVES)

A SVES may be installed along the Site perimeter if the post-remedial soil vapor sampling indicates the need for mitigation measures to prevent the off-site migration of soil vapor. Post-remedial soil vapor samples will be collected from the RI soil vapor point locations, as shown on Figure 15, following completion of site-wide soil excavation. The target area for the SVES is the vadose zone (unsaturated soil above the groundwater table) around the Site perimeter. The SVE wells will be connected through a network of underground piping to a SVE blower, which will apply a vacuum to draw contaminated vapors from the treatment area through a granular activated carbon (GAC) vapor treatment system prior to discharge to the atmosphere. The proposed number and locations of the SVE wells, screen intervals, and piping layout will be included in a separate Remedial Design Document submitted to NYSDEC and NYSDOH for review and approval prior to installation. The conceptual SVES layout is shown on Figure 15.

12.1.1 SVES Treatment Area

The target area for the SVES is the vadose zone where subsurface soil sampling and soil vapor sampling identified elevated concentrations of PCE and TCE. The SVE wells will be installed at the approximate locations shown on Figure 15. The SVE wells will be installed to provide overlapping Radii of Influence (ROIs). Each SVE well is projected to have an ROI of approximately 30 feet; however, the final quantity and placement of SVE wells will be subject to the SVES pilot test.

The SVE wells will be connected through a network of underground piping to a SVE blower located in an aboveground equipment shed, which will apply a vacuum to draw contaminated vapors from the treatment area through a GAC vapor treatment system prior to discharging the treated vapor to the atmosphere.

12.1.2 SVES Pilot Test

12.1.2.1 Pilot Test SVE Well Installation

To conduct the pilot test, two SVE wells (biased towards areas with elevated RI soil vapor detections) will be installed at two of the proposed SVE well locations shown on Figure 15. The SVE wells will be installed with 4-inch diameter Schedule 40 PVC pipe, with a 15-foot length of 0.020-inch slotted screen and solid riser. A No. 2 sand filter pack will be installed around, and 2 feet above, the top of the well screen. Approximately 2 feet of hydrated bentonite will be installed above the sand filter pack and a non-shrinking bentonite-cement grout will be used to fill the annular space to approximately 1 foot below surface grade.

12.1.2.2 Temporary Vapor Monitoring Point Installation

Approximately eight temporary vapor monitoring points will be installed using a Geoprobe® DPP drill rig at locations surrounding the two SVE well locations selected for the pilot test. Each vapor monitoring point will be installed with a probe set at the approximate depth of the screened interval of the corresponding pilot test well. The vapor monitoring points will be generally installed 20 and 40 feet north, east, and west of each SVE well to the extent practicable, based on Site constraints and the proposed SVE wells' proximity to the Site boundaries.

At each monitoring point, a 6-inch stainless steel screen implant will be connected to Teflon™-lined tubing and installed to the target depth within the screened intervals of the SVE wells. The sampling tubing will extend from the end of the screen to above surface grade. The annular space around the point and tubing will be backfilled with clean silica sand to between approximately 3 and 6 inches above the screen. Hydrated bentonite will be used to fill the remaining void around the sampling tubing to approximately 1 foot below surface grade and a non-shrinking cement-grout mixture will fill the void to surface grade. Dependent on the final building design, the temporary vapor monitoring points may be utilized as permanent vapor monitoring points completed with flush-mounted 6-inch diameter watertight locking well covers.

12.1.2.3 Pilot Test Baseline Monitoring

Baseline monitoring will be conducted to provide data for static conditions prior to initiating the SVE pilot test. The measurements from each SVE well and vapor monitoring point will include the following:

- Vacuum/pressure of well headspace using a magnehelic gauge;
- Organic vapors at the well headspace using a PID; and
- Oxygen (O_2) at the well headspace using an O_2 meter.

Each temporary vapor monitoring point will be fitted with an expandable well cap that will be pre-drilled with a hose fitting and connected to a section of sampling hose to allow for headspace readings (vacuum/pressure, organic vapors, O_2) within the well. Magnehelic gauges measuring a range of 0 to 5 inches of water will be utilized during the baseline monitoring to measure vacuum and/or pressure at the observations wells.

12.1.2.4 Blower Calibration

A skid-mounted regenerative blower with a capacity of at least 100 cubic feet per minute (cfm) at a vacuum of 40 inches of water (in H_2O), will be utilized for the pilot test. The system will be equipped with a variable frequency drive (VFD), flow meter, and vacuum gauge. The blower specifications and blower curve for the blower that will be used during the pilot test will depend on availability at the time of the pilot test.

Following installation of the SVE pilot test blower assembly, the blowers, gauges, and monitoring equipment will be checked for functionality. The SVE pilot test blower will be operated initially to determine the maximum flow rate and applied vacuum. The system will then be shut off.

12.1.2.5 Pilot Test Implementation

To specify design details for the proposed SVE system, a pilot test will be performed to confirm the ROI around each SVE well and to evaluate the appropriate blower sizing. Effluent vapor sampling will also be conducted during the testing to help determine the change out schedule and sizing of the proposed GAC vapor treatment prior to discharge into the atmosphere.

The pilot test will be performed at both SVE pilot test wells in step tests utilizing three increasing air flow rates as a percentage (25%, 50%, and 100%) of the maximum blower capacity without inducing significant upwelling and/or water entrainment. During each step test, vacuum/pressure measurements will be collected at each monitoring point to assess the ROI for the SVE pilot test wells.

12.1.3 SVES Components

The sizing and configuration of final SVES components are subject to the results of the pilot test; however, they are likely to include the following:

1. 4-inch diameter SVE wells constructed with 15 feet of screen approximately 2-5 feet above the observed groundwater interface, pending results of the pilot test.
2. 4-inch and 6-inch diameter solid PVC piping connecting the SVE wells from the subsurface to an exterior equipment enclosure.
3. Accessories on the individual SVE lines, including throttling valves, sample ports, vacuum/pressure gauges, air flow rate gauges, temperature sensors, reducers, unions, etc., to be confirmed during final design and installation.
4. SVE blower(s), equipped with a variable-frequency drive (VFD) to throttle blower operation to appropriate conditions (vacuum and air flow rate) and a dilution valve with fresh air intake.
5. A control panel equipped with a telemetry system to notify select personnel of alarm conditions.
6. A GAC vapor treatment unit (size based on pilot testing) consisting of carbon units piped in series.
7. A 6-inch diameter galvanized steel exhaust stack fitted with a rain cap.
8. Pipe sleeves through concrete foundation elements.
9. Condensate sump(s), if necessary.
10. An exterior equipment enclosure with a grounding rod to house all mechanical equipment, including a knockout (i.e., moisture) drum and pump.

12.1.4 SVES Confirmatory Testing

SVES startup testing, including balancing the system, will be conducted to assess induced vacuum conditions throughout the Site. If subsurface vacuum and air flow rate conditions are not adequately induced in the treatment area (as determined by individual line vacuum and air flow rate readings, induced vacuum readings at adjacent SVE wells, and vacuum field extension readings at monitoring points), the SVES will be rebalanced by adjusting the applied vacuum and air flow rate conditions at the individual SVE wells until acceptable conditions are observed. Effluent GAC sampling will be conducted periodically to determine the carbon change out schedule.

12.1.5 SVES Operations and Maintenance (O&M)

After successful SVES startup, daily checks will be performed during the first week of operation and weekly checks will be performed during the first month of operation. After the initial month of operation, the SVES will be inspected at a minimum of once a month to ensure proper operation. Monthly checks will consist of individual SVES riser pipe gauge readings, suction fan inspections, and alarm checks. More detailed system maintenance instructions will be included in the SMP.

A proposal to discontinue the SVES may be submitted by the property owner based on confirmatory SVES operations and effluent vapor sample data that justifies such a request. The SVES will continue to be maintained and operational until permission to discontinue operation is granted in writing by NYSDEC and NYSDOH.

All as-built drawings, diagrams, design calculations, and manufacturer documentation for treatment systems will be included in the FER.

13.0 CRITERIA FOR COMPLETION OF REMEDIATION/ TERMINATION OF REMEDIAL SYSTEMS

13.1 Site Cover System

The site cover system is a permanent control, and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

13.2 SSDS

The active SSDS will not be discontinued without written approval by NYSDEC and NYSDOH. A proposal to discontinue the SSDS may be submitted by the property owner based on confirmatory data that justifies such request. The system will remain in place and operational until permission to discontinue use is granted in writing by NYSDEC and NYSDOH. Prior to discontinuing the SSDS, sub-slab soil vapor samples will be collected from the five SSDS vacuum monitoring points.

13.3 In-Situ Groundwater Treatment

The Remedial Design Report will include a contingency for subsequent injection events. The need for subsequent events will be determined based on the post-remedial groundwater monitoring results. Post-remedial sampling will be conducted from up to 15 groundwater monitoring wells in accordance with the QAPP (Appendix F).

13.4 Contingent SVES

If an SVES is required, it will not be discontinued without written approval by NYSDEC and NYSDOH. A proposal to discontinue the SVES may be submitted by the property owner based on confirmatory data that justifies such request. The system will remain in place and operational until permission to discontinue use is granted in writing by NYSDEC and NYSDOH.

14.0 INSTITUTIONAL CONTROLS

After the remedy is complete, the Site will have residual contamination remaining in place. Engineering Controls (ECs) for the residual contamination are necessary and have been incorporated into the remedy to render the overall Site remedy protective of public health and the environment, as required by 6 NYCRR § 375-3.8(a) and § 375-1.8(h). Two elements have been designed to ensure continual and proper management of residual contamination in perpetuity, as mandated by the Environmental Easement requirements of 6 NYCRR § 375-1.8(h)(2): an Environmental Easement and a Site Management Plan (SMP).

All as-built drawings, diagrams, calculation and manufacturer documentation for treatment systems will be presented in the FER. A Site-specific Environmental Easement will be recorded with New York City Department of Finance Office of the City Register to provide an enforceable means of ensuring the continual and proper management of residual contamination and protection of public health and the environment in perpetuity or until released in writing by NYSDEC. It requires that the grantor of the Environmental Easement and the grantor's successors and assigns adhere to all Engineering and Institutional Controls (ECs/ICs) placed on this Site by this NYSDEC-approved remedy. ICs provide restrictions on Site usage and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. The SMP describes appropriate methods and procedures to ensure compliance with all ECs and ICs that are required by the Environmental Easement. Once the SMP has been approved by the NYSDEC, compliance with the SMP is required by the grantor of the Environmental Easement and grantor's successors and assigns.

14.1 Environmental Easement

An Environmental Easement, as defined in Article 71 Title 36 of the Environmental Conservation Law, is required when residual contamination is left on-Site after the Remedial Action is complete. As part of this remedy, an Environmental Easement approved by NYSDEC will be filed and recorded with the New York City Department of Finance Office of the City Register. The EE will be submitted as part of the Final Engineering Report.

The Environmental Easement renders the Site a Controlled Property. The Environmental Easement must be recorded with the New York City Department of Finance Office of the City Register before the Certificate of Completion can be issued by NYSDEC, in accordance with 6 NYCRR § 375-3.8(h)(3). A series of Institutional Controls are necessary under this remedy to implement, maintain and monitor these Engineering Control systems, prevent future exposure to residual contamination by controlling disturbances of the subsurface soil and restricting the use of the Site to restricted residential, commercial, or industrial use(s) only. These Institutional Controls are requirements or restrictions placed on the Site that are listed in, and required by, the Environmental Easement, and must include the elements specified in 6 NYCRR § 375-1.8(h)(1). Institutional Controls can, generally, be subdivided between controls that support Engineering Controls, and those that place general restrictions on Site usage or other requirements. Institutional Controls in both of these groups are closely integrated with the SMP, which provides all of the methods and procedures to be followed to comply with this remedy.

The ICs that support Engineering Controls are:

- Compliance with the Environmental Easement by the Grantee and the Grantee's successors and adherence of all elements of the SMP is required;
- All Engineering Controls must be operated and maintained as specified in this SMP;
- A site cover system consisting of a minimum of 2 feet of clean fill material in landscaped and pervious areas, concrete or impervious paved walkways, and concrete building slabs (5-inch thick concrete slab in the cellar, 3-inch thick concrete rat slab in the crawl space, and 10-inch

thick concrete slab in the first floor) must be inspected, certified and maintained as required in the SMP;

- A soil vapor mitigation system consisting of a SSDS under all building structures must be inspected, certified, operated and maintained as required by the SMP;
- A contingency SVES on the Site perimeter must be inspected, certified, operated and maintained as required by the SMP;
- The permanent groundwater treatment system must be maintained and inspected as required by the SMP;
- All ECs on the Controlled Property must be inspected and certified at a frequency and in a manner defined in the SMP;
- Groundwater, soil vapor and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- On-Site environmental monitoring devices, including but not limited to, groundwater monitor wells, soil vapor probes and SSDS vacuum monitoring points, must be protected and replaced as necessary to ensure proper functioning in the manner specified in the SMP; and
- ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement.

Adherence to these Institutional Controls for the Site is mandated by the Environmental Easement and will be implemented under the SMP (discussed in Section 12.2). The Controlled Property (Site) will also have a series of Institutional Controls in the form of Site restrictions and requirements. The Site restrictions that apply to the Controlled Property are:

- In-ground vegetable gardens and farming on the Site are prohibited;
- Use of groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for intended purpose;
- All future activities on the Controlled Property that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil management provisions in the SMP;
- The Controlled Property may be used for restricted residential, commercial or industrial use only, provided the long-term Engineering and Institutional Controls included in the SMP are employed;
- The Controlled Property may not be used for a higher level of use, such as unrestricted or single-family residential use without an amendment or extinguishment of this Environmental Easement;
- Grantor agrees to submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an

alternate period of time that NYSDEC may allow. This annual statement must be certified by an expert that the NYSDEC finds acceptable.

14.2 Site Management Plan

Site Management is the last phase of remediation and begins with the approval of the FER and issuance of the Certificate of Completion (COC) for the Remedial Action. The SMP is submitted as part of the FER but will be written in a manner that allows its removal and use as a complete and independent document. Site Management continues in perpetuity or until released in writing by NYSDEC. The property owner is responsible to ensure that all Site Management responsibilities defined in the Environmental Easement and the SMP are performed.

The SMP should include methods to incorporate and track GSR. Measures should be taken to maintain a cost-effective, protective remedy that remains conscientious of the Site's environmental footprint. At a minimum, the following should be assessed: waste generation, energy usage, emissions, and water usage.

The SMP is intended to provide a detailed description of the procedures required to manage residual contamination left in place at the Site following completion of the Remedial Action in accordance with the BCA with the NYSDEC. This includes: (1) development, implementation, and management of all Engineering and Institutional Controls; (2) development and implementation of monitoring systems and a Monitoring Plan; (3) development of a plan to operate and maintain any treatment, collection, containment, or recovery systems (including, where appropriate, preparation of an Operation and Maintenance Manual); (4) submittal of Site Management Reports, performance of inspections and certification of results, and demonstration of proper communication of Site information to NYSDEC; and (5) defining criteria for termination of treatment system operation.

To address these needs, this SMP will include four plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; (2) a Monitoring Plan for implementation of Site Monitoring; (3) an Operation and Maintenance Plan for implementation of remedial collection, containment, treatment, and recovery systems; and (4) a Site Management Reporting Plan for submittal of data, information, recommendations, and certifications to NYSDEC. The SMP will be prepared in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation and the guidelines provided by NYSDEC.

Site management activities, reporting, and EC/IC certification will be scheduled on a certification period basis. The certification period will be annually. The SMP will be based on the certifying period relative to the date of issuance of the COC. The first submission will be due16 months after the issuance of the COC, and annually (or at another frequency as approved by NYSDEC) thereafter.

The SMP in the FER will include a monitoring plan for groundwater at the down-gradient Site perimeter to evaluate Site-wide performance of the remedy. Appropriately placed groundwater monitor wells will also be installed immediately down-gradient, within the Site boundary. of all source remediation areas for the purpose of evaluation of the effectiveness of the remedy that is implemented.

No exclusions for handling of residual contaminated soils will be provided in the SMP. All handling of residual contaminated material will be subject to provisions contained in the SMP.

15.0 FINAL ENGINEERING REPORT

A FER will be submitted to NYSDEC following implementation of the Remedial Action defined in this RAWP. The FER provides the documentation that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The FER will provide a comprehensive account of the locations and characteristics of all material removed from the Site including the surveyed map(s) of all sources. The Final Engineering Report will include as-built drawings for all constructed elements, calculation and manufacturer documentation for treatment systems, certifications, manifests, bills of lading as well as the complete SMP. The FER will provide a description of the changes in the Remedial Action from the elements provided in the RAWP and associated design documents. The FER will provide a tabular summary of all performance evaluation sampling results and all material characterization results and other sampling, and chemical analysis performed as part of the Remedial Action. The FER will provide test results demonstrating that all mitigation and remedial systems are functioning properly. The FER will be prepared in conformance with DER-10.

Where determined to be necessary by NYSDEC, a Financial Assurance Plan will be required to ensure the sufficiency of revenue to perform long-term operations, maintenance and monitoring tasks defined in the Site Management Plan and Environmental Easement. This determination will be made by NYSDEC in the context of the FER review.

The FER will include written and photographic documentation of all remedial work performed under this remedy and an itemized tabular description of actual costs incurred during all aspects of the Remedial Action.

The FER will provide a thorough summary of all residual contamination left on the Site after the remedy is complete. Residual contamination includes all contamination that exceeds the Track 1 Unrestricted Use SCO in 6NYCRR Part 375-6. A table that shows exceedances from Track 1 Unrestricted SCOs for all soil/fill remaining at the Site after the Remedial Action and a map that shows the location and summarizes exceedances from Track 1 Unrestricted SCOs for all soil/fill remaining at the Site after the Remedial Action will be included in the FER.

The FER will provide a thorough summary of all residual contamination that exceeds the SCOs defined for the Site in the RAWP and must provide an explanation for why the material was not removed as part of the Remedial Action. A table that shows residual contamination in excess of Site SCOs and a map that shows residual contamination in excess of Site SCOs will be included in the FER.

The FER will include an accounting of the destination of all material removed from the Site, including excavated contaminated soil, historic fill, solid waste, hazardous waste, non-regulated material, and fluids. Documentation associated with disposal of all material must also include records and approvals for receipt of the material. It will provide an accounting of the origin and chemical quality of all material imported onto the Site.

The FER must include a discussion of the green remediation practices/technologies employed throughout the remedial program. A final footprint analysis using a DER accepted model, and any tracking methods used through the construction including restoration activities. Before approval of a FER and issuance of a COC, all project reports must be submitted in digital form on electronic media (PDF).

15.1 Certifications

The following certification will appear in front of the Executive Summary of the Final Engineering Report. The FER will be prepared, stamped and the following certification signed by an individual licensed or otherwise authorized in accordance with article 145 of the education law to practice the profession of engineering. The certification will include the following statements:

I, Rebecca Kinal, P.E., am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the 32-11 31st Street Site (BCA Index No. C241290).

I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan and Remedial Design was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan and Remedial Design.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the [Remedial Action Work Plan or Remedial Design] and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a SMP has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that any financial assurance mechanisms required by the Department pursuant to Environmental Conservation Law have been executed.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Rebecca Kinal, of AKRF, Inc. at 440 Park Avenue South, New York, NY York 10016, am certifying as Owner's Designated Site Representative or the Site.

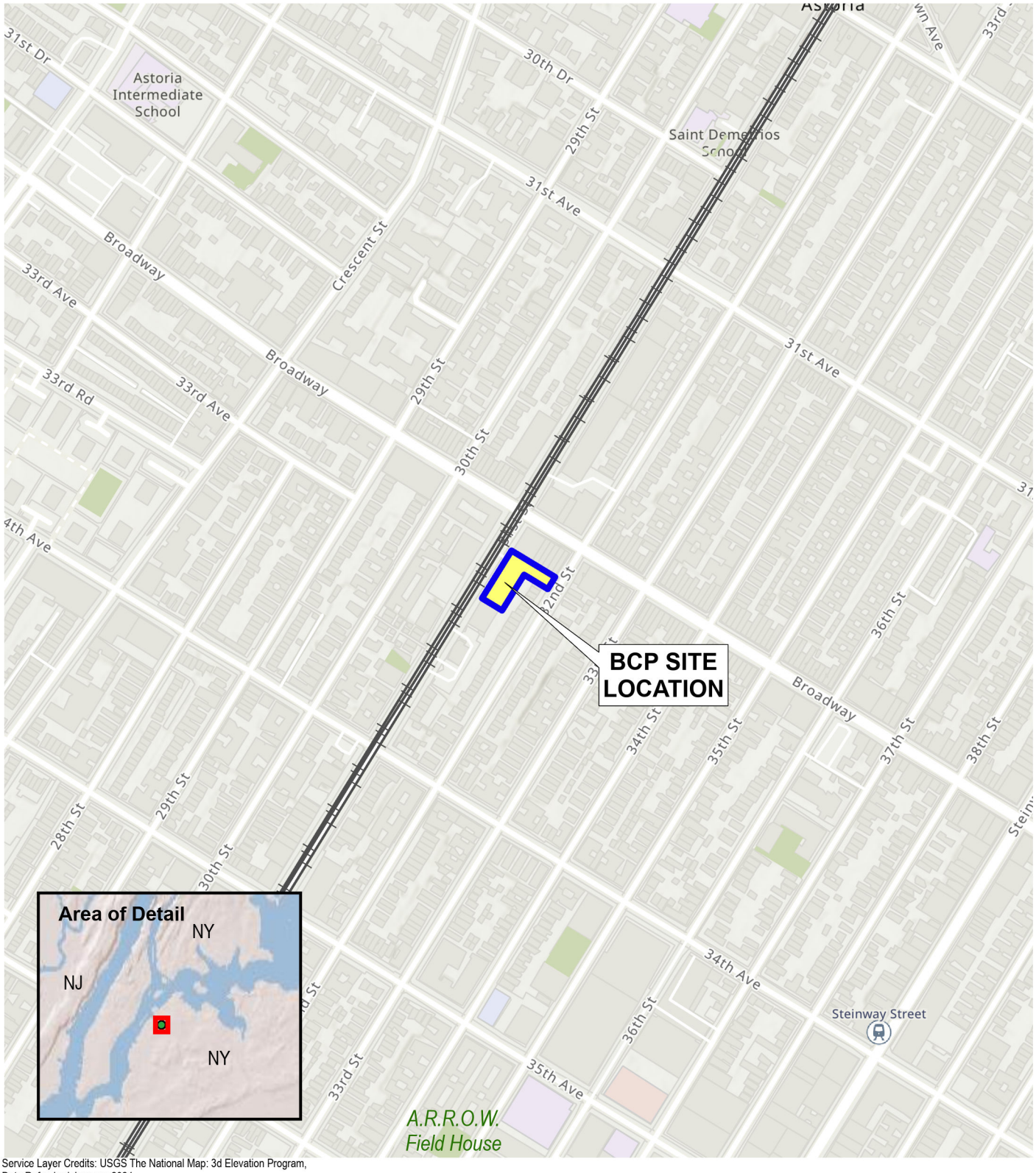
It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

16.0 SCHEDULE

Table I
Proposed Project Schedule

Activity	Time To Complete
RIR Submitted to NYSDEC	July 2026
Draft RAWP Submitted to NYSDEC	July 2026
NYSDEC Issues Comments on Draft RIR and RAWP	End of August 2026
Revised RIR and RAWP Submitted to NYSDEC	September 2026
45-day Public Comment Period for RAWP is Initiated	September 2026
NYSDEC Approves RIR	October 2026
Public Comment Period for RAWP Ends	October 2026
Final RAWP Submitted/NYSDEC Approves RAWP and Issues Decision Document	November 2026
Issue Remedial/Construction Notice Fact Sheet and Conduct Pre-Construction Meeting	December 2026
Begin Redevelopment (Construction) with Implementation of RAWP	January 2027
Execution of Environmental Easement (if required)	July 2027
Draft Site Management Plan (SMP) Submitted to NYSDEC	August 2027
Draft Final Engineering Report and Fact Sheet	September 2027
Certificate of Completion and Fact Sheet	December 2027
Completion of Building (first occupancy)	December 2029

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed January, 2024

0 500 1,000

SCALE IN FEET

N

akrf

440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

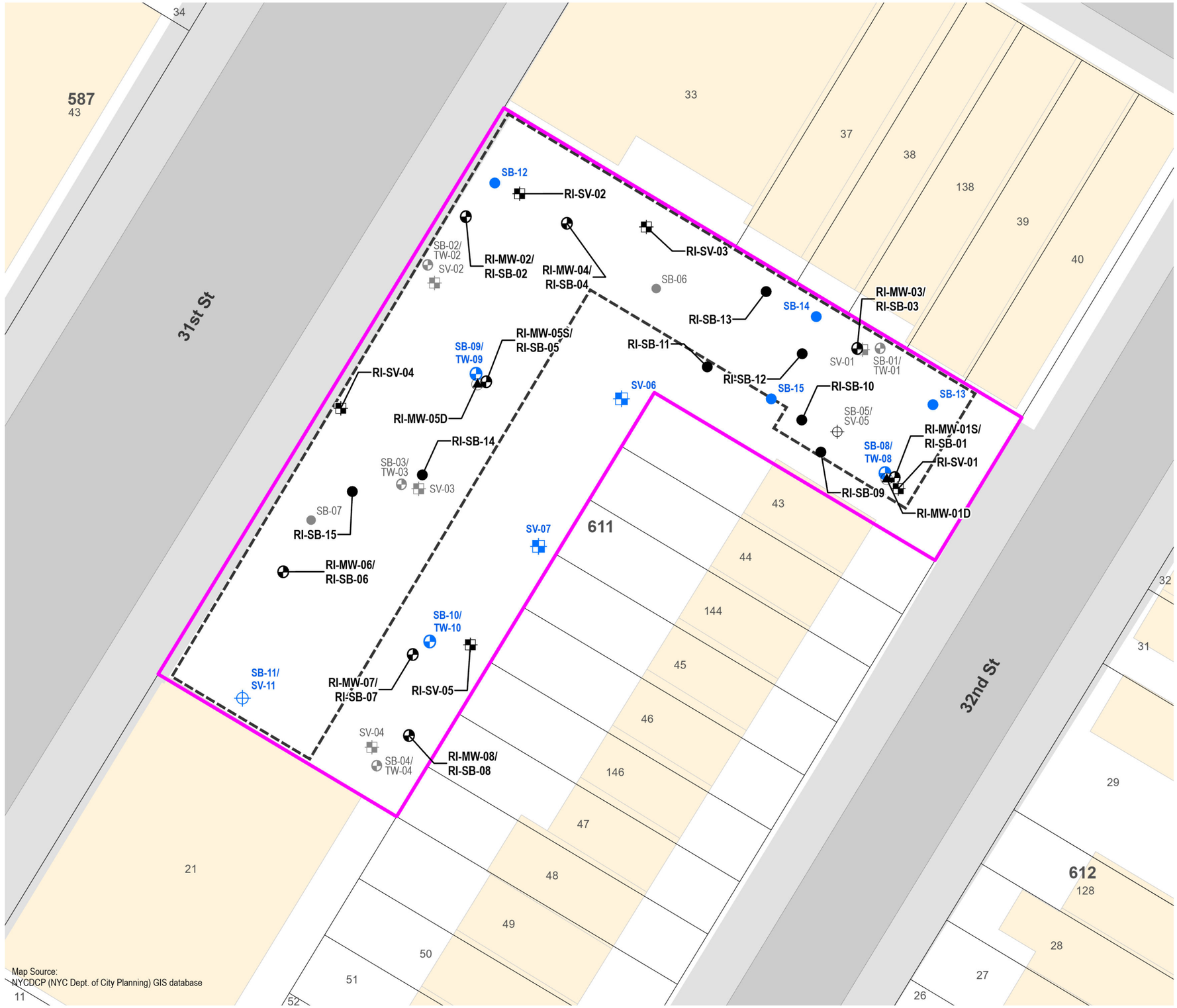
BCP SITE LOCATION

DATE
7/30/2026

PROJECT NO.
240854

FIGURE
1

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures GW SV etc.aprx7/30/2026 9:15 AM240854 Fig 1 Site Locationmveilleux



N

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- PROPOSED BUILDING
- 2022 PHASE II SOIL BORING
- 2022 PHASE II SOIL BORING/ SOIL VAPOR POINT
- 2022 PHASE II SOIL VAPOR POINT
- 2022 PHASE II SOIL BORING/ TEMPORARY WELL
- 2024 PHASE II SOIL BORING
- 2024 PHASE II SOIL BORING/ SOIL VAPOR POINT
- 2024 PHASE II SOIL BORING/ TEMPORARY WELL
- 2024 PHASE II SOIL VAPOR POINT
- RI SOIL BORING
- RI SOIL BORING/MONITORING WELL
- RI MONITORING WELL
- RI SOIL VAPOR POINT

0 15 30 60

SCALE IN FEET

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

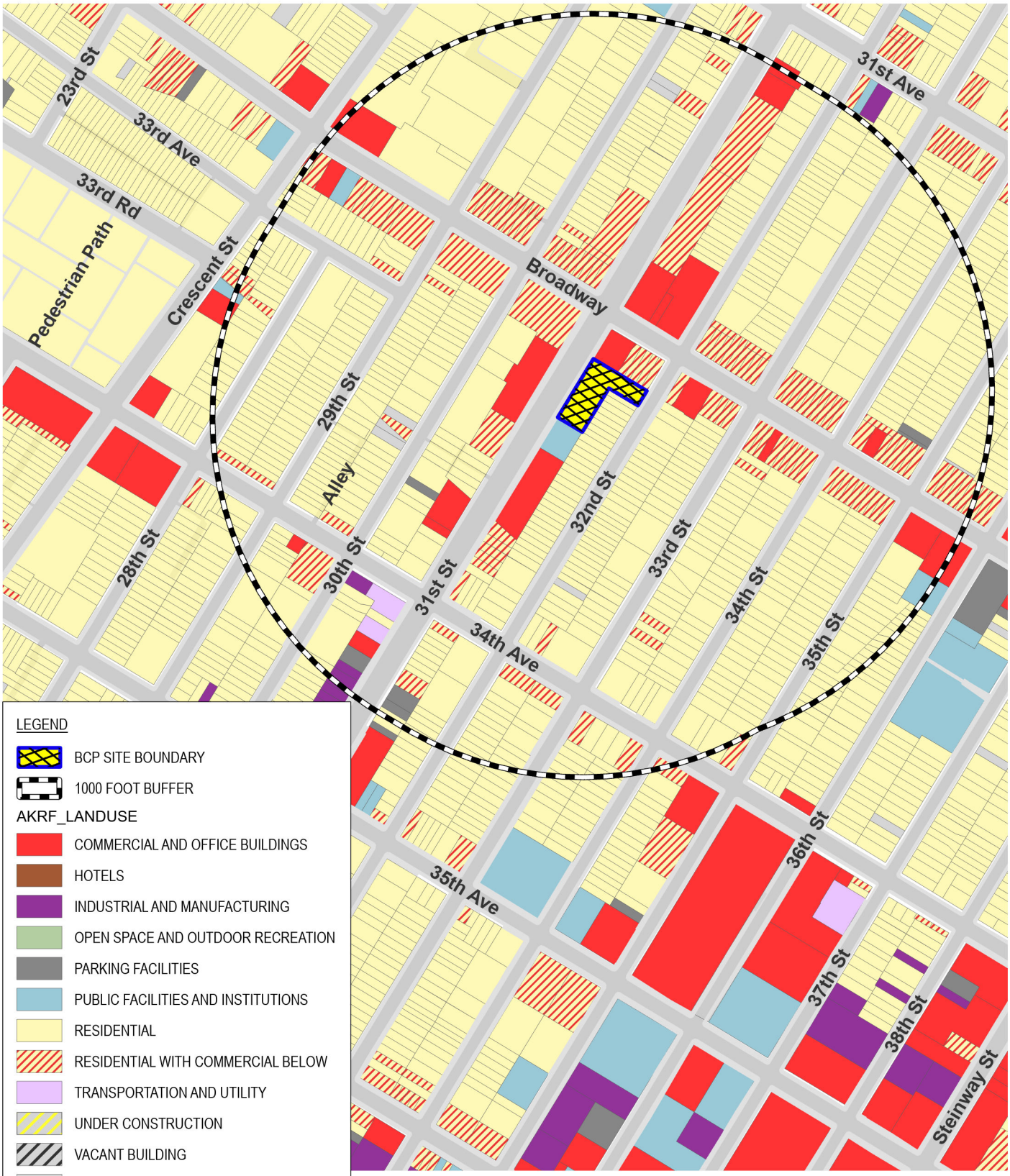
BCP SITE AND SAMPLE LOCATION PLAN

DATE
7/30/2026

PROJECT NO.
240854

FIGURE
2

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx 7/30/2026 9:18 AM240854 Fig 2 BCP Site and Sample Location Plan mveilleux



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures GW SV etc.aprx7/30/2026 9:19 AM240854 Fig 3 Surrounding Land Usemveilleux

akrf
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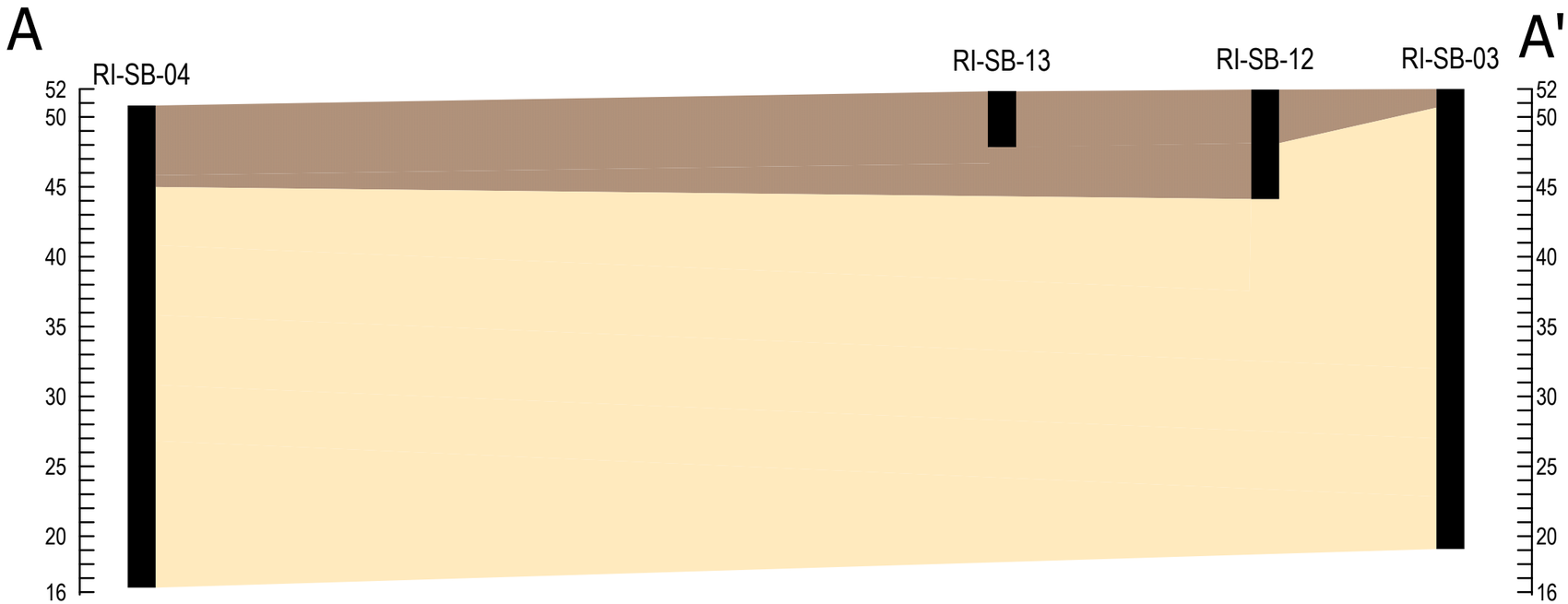
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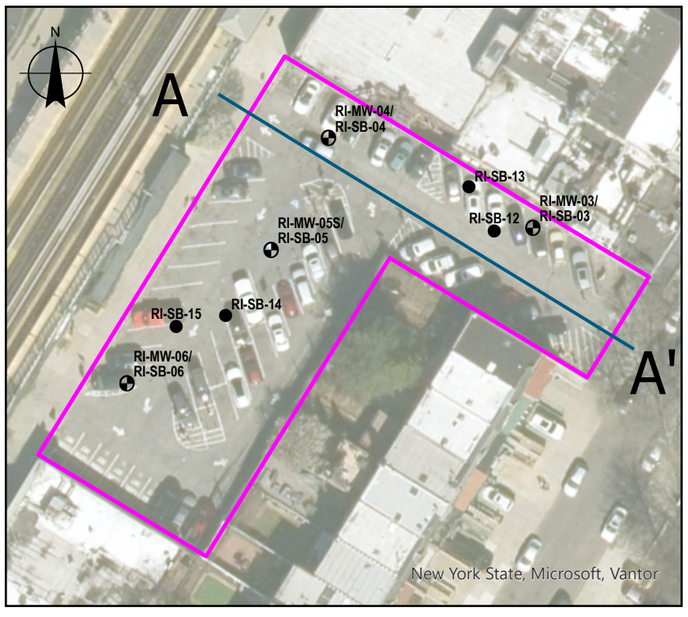
SURROUNDING LAND USE

DATE
7/30/2026

PROJECT NO.
240854

FIGURE
3





Key Plan

LEGEND

- FILL
- NATIVE SAND
- SOIL BORING
- ELEVATION IN FEET

0 5 10 20 Feet

NOTES
Elevations are shown in reference to NAVD88

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32-11 31st Street
Queens, New York

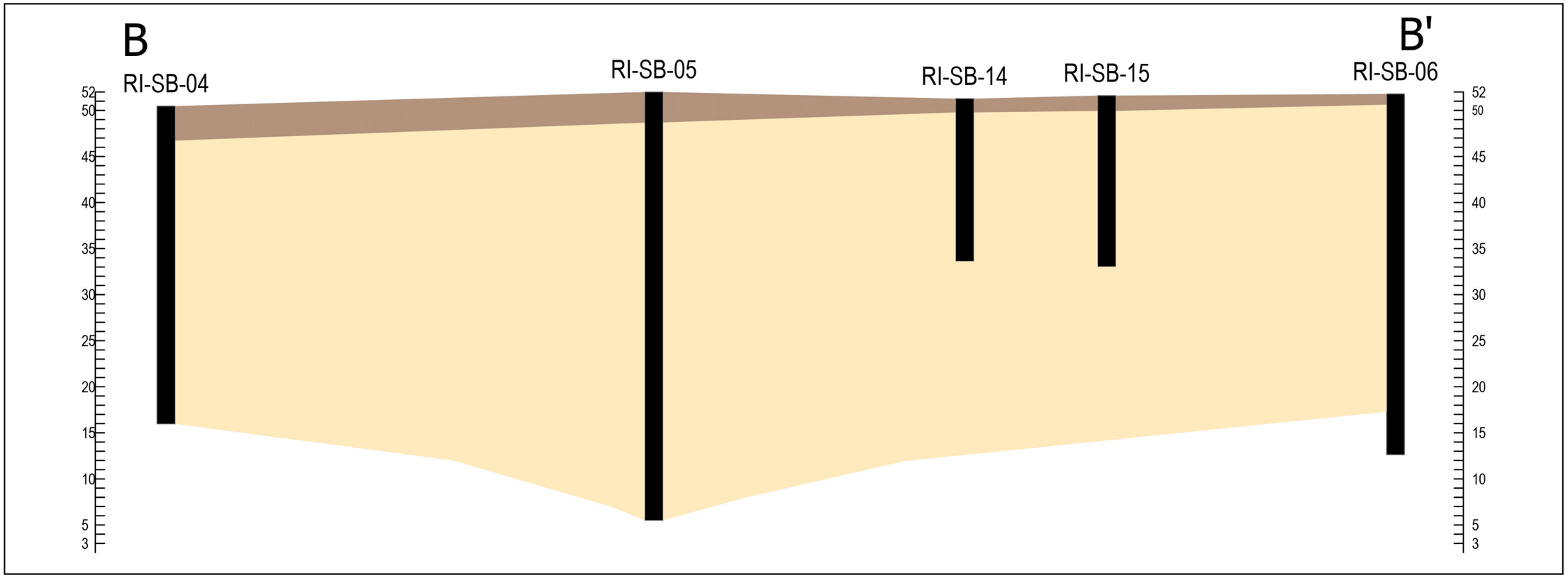
EAST-WEST LITHOLOGY CROSS SECTION

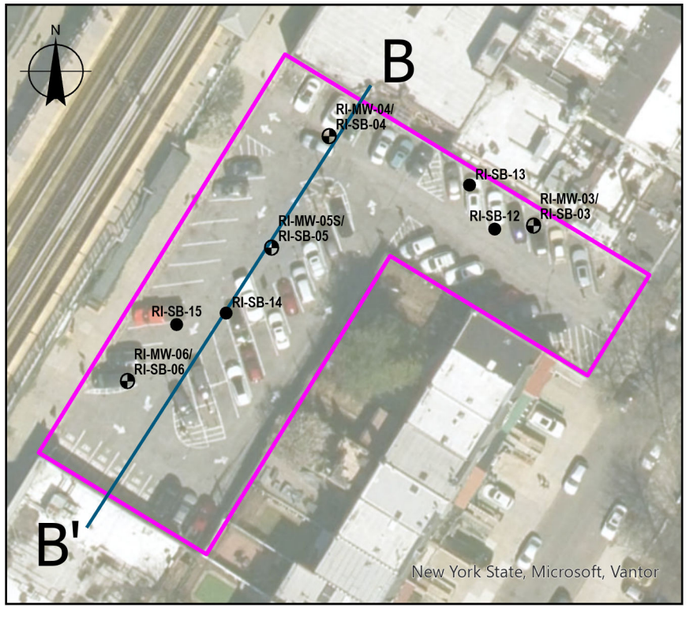
DATE
7/22/2026

PROJECT NO.
240854

FIGURE
4

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures GW SV etc.aprx 7/22/2026 1:02 PM240854 Fig 4 Lithological Cross Section – East_West jszalus





Key Plan

0 5 10 20 Feet

LEGEND

- SOIL BORING
- FILL
- NATIVE SAND
- ELEVATION IN FEET

NOTES
Elevations are shown in reference to NAVD88

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32-11 31st Street
Queens, New York

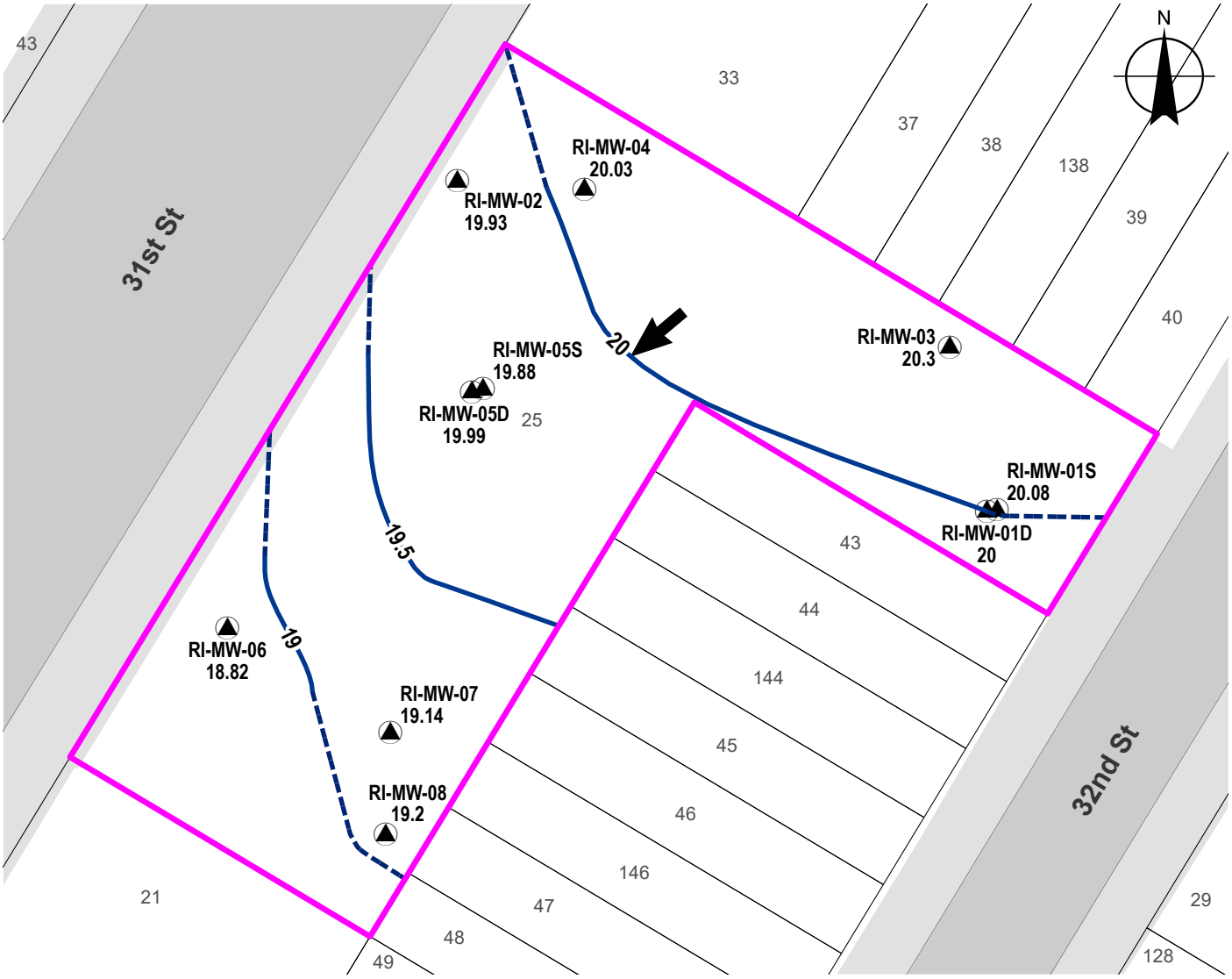
NORTH-SOUTH LITHOLOGY CROSS SECTION

DATE
7/30/2026

PROJECT NO.
240854

FIGURE
5

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures GW SV etc.aprx 7/30/2026 6:16 PM240854 Fig 5 Lithological Cross Section – North_South mveilleux



LEGEND

- BCP SITE BOUNDARY
- MONITORING WELL WATER TABLE ELEVATION IN FEET (NAVD 88)
- INFERRED MONITORING WELL WATER TABLE ELEVATION IN FEET (NAVD 88)
- MONITORING WELL ID WITH GROUNDWATER ELEVATION IN FEET
- APPROXIMATE GROUNDWATER FLOW DIRECTION

0 40 80

SCALE IN FEET

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

Well ID	Top of Casing Elevation (ft.)	Depth to Groundwater (ft. below TOC)	Groundwater Elevation (ft.)
RI-MW-01S	51.68	31.6	20.08
RI-MW-01D	51.69	31.69	20.00
RI-MW-02	49.84	29.91	19.93
RI-MW-03	51.58	31.28	20.3
RI-MW-04	50.32	30.29	20.03
RI-MW-05S	51.95	32.07	19.88
RI-MW-05D	51.59	31.6	19.99
RI-MW-06	51.61	32.79	18.82
RI-MW-07	54.17	35.03	19.14
RI-MW-08	55.32	36.12	19.2

Notes:

ft. = feet

TOC = top of casing

Elevation = feet above mean sea level based on the North American Vertical Datum of 1988 (NAVD88).

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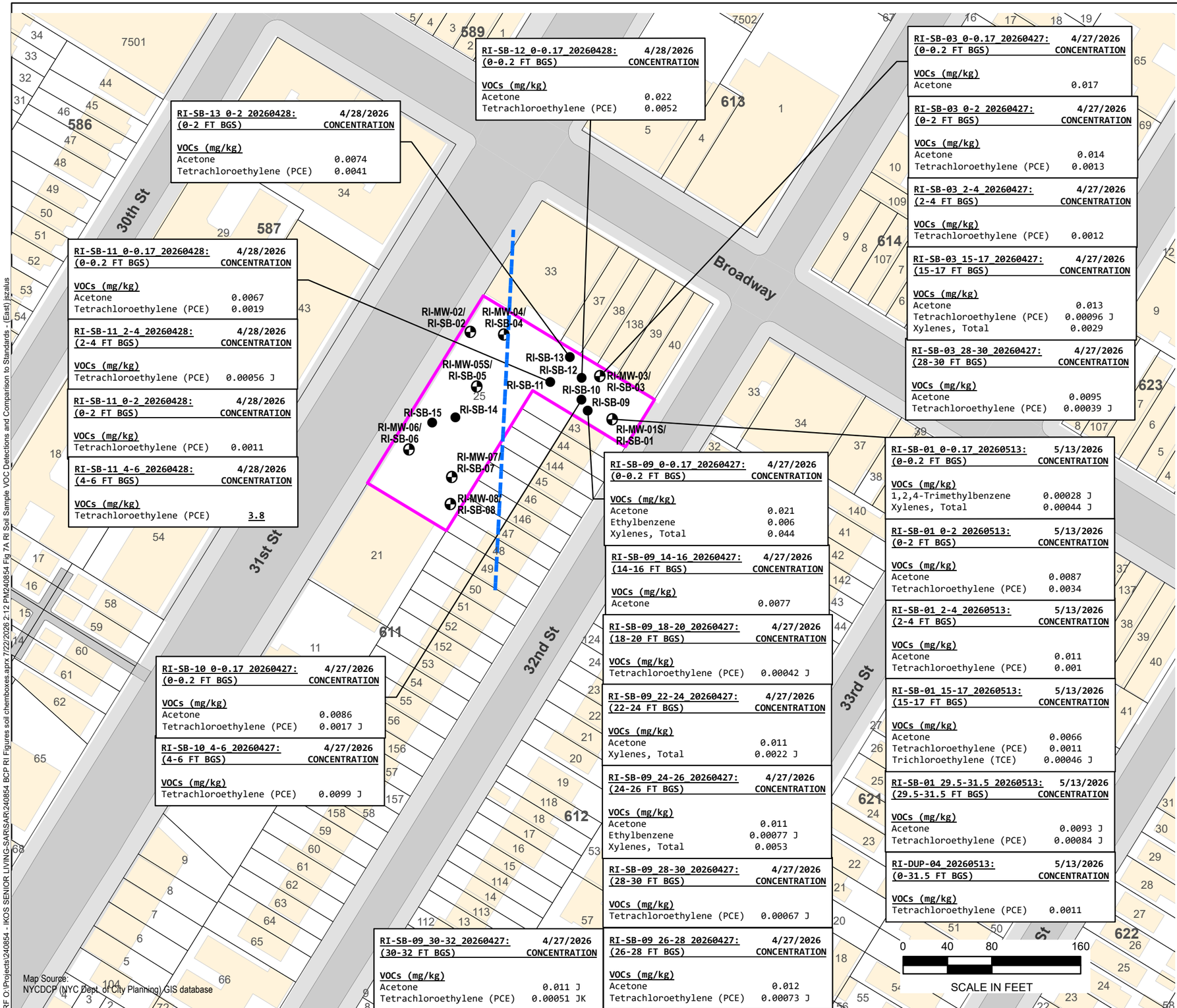
GROUNDWATER ELEVATION CONTOURS
DATE MAY 2026

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
6

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx7/21/2026 5:20 PM240854 Fig 6 Groundwater Contour Map May 2026|szalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- EAST/WEST HALF OF SITE
- SOIL BORING
- SOIL BORING/MONITORING WELL

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

Exceedances of NYSDEC Protected Groundwater Soil Cleanup Objectives (PGWSCOs) are presented in underlined font.

mg/kg: milligrams per kilogram = parts per million (ppm)

J: The concentration given is an estimated value.
K: Reported concentration value is proportional to dilution factor and may be exaggerated.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
VOCs		
Acetone	100	0.03
Tetrachloroethylene (PCE)	18	1.3

Sample ID — Sample Date

RI-SB-07 33-35 20260428: 4/28/2026
(33-35 FT BGS) CONCENTRATION
VOCs (mg/kg)
Tetrachloroethylene (PCE) 0.001 J

Analyte/Compound — Concentration

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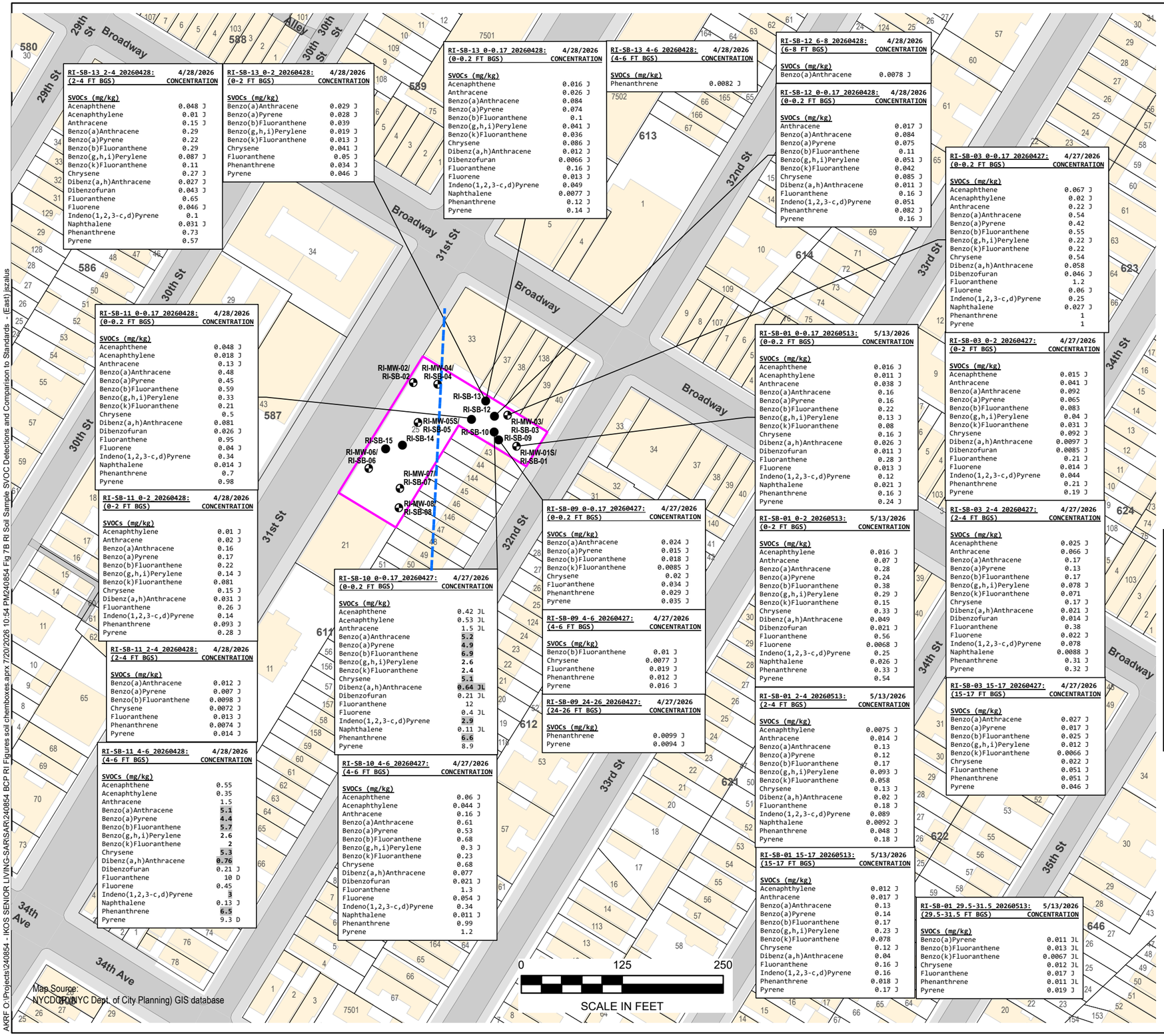
RI SOIL SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS - (EAST)

DATE
7/22/2026

PROJECT NO.
240854

FIGURE
6

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/22/2026 2:12 PM240854 Fig 7A RI Soil Sample VOC Detections and Comparison to Standards - (East) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- EAST/WEST HALF OF SITE

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
L: Sample result is estimated and biased low..
D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1

Sample ID — Sample Date

RI-SB-09 24-26 20260427: 4/27/2026
(24-26 FT BGS) CONCENTRATION

SVOCs (mg/kg)
Phenanthrene 0.0099 J
Pyrene 0.0094 J

Analyte/Compound — Concentration

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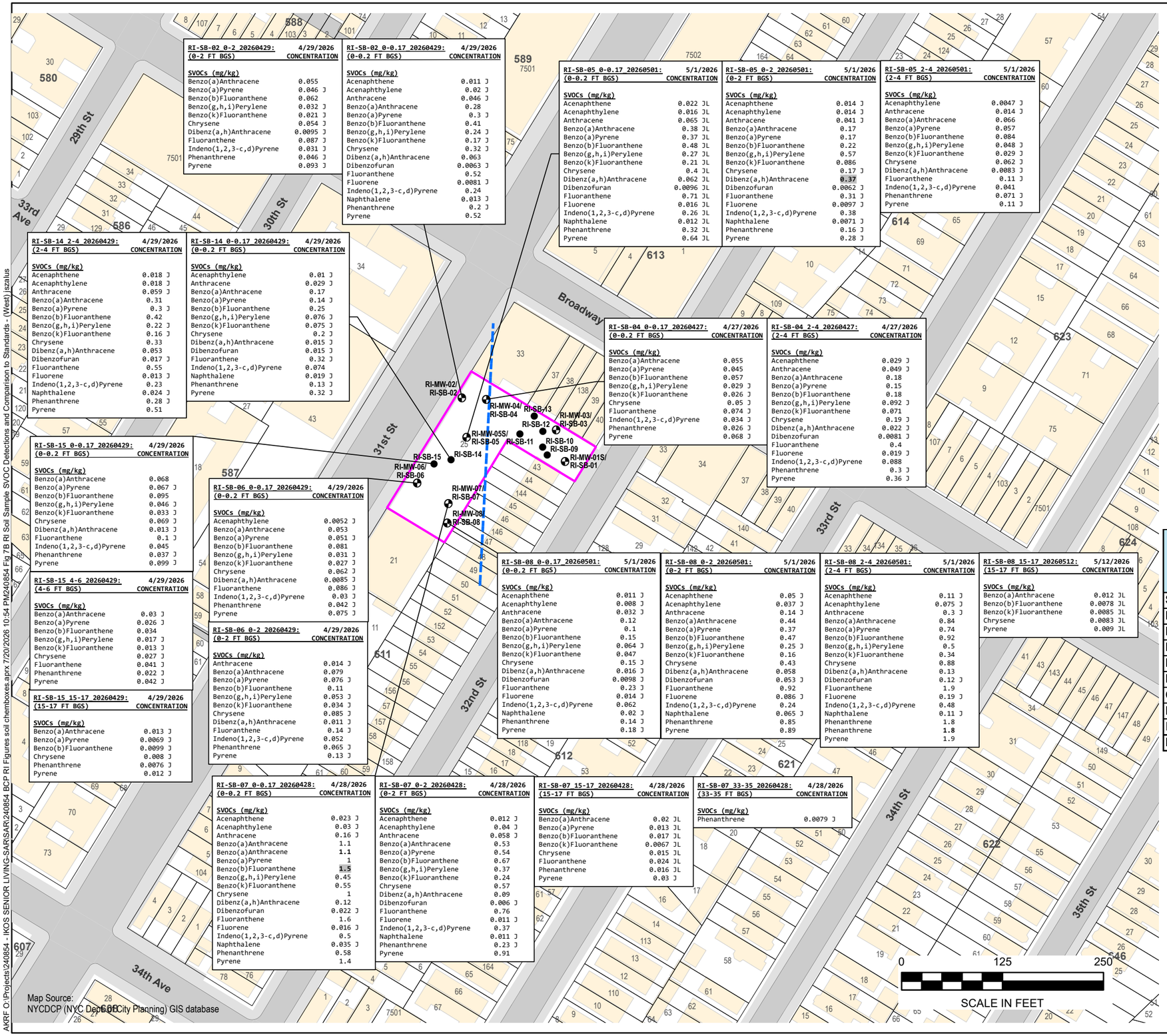
RI SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS - (EAST)

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
6B

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 10:54 PM240854 Fig 7B RI Soil Sample SVOC Detections and Comparison to Standards - (East) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- EAST/WEST HALF OF SITE

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
L: Sample result is estimated and biased low.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1

Sample ID — Sample Date

RI-SB-09 24-26 20260427: (24-26 FT BGS) 4/27/2026 CONCENTRATION

SVOCs (mg/kg)

Analyte/Compound	Concentration
Phenanthrene	0.0099 J
Pyrene	0.0094 J

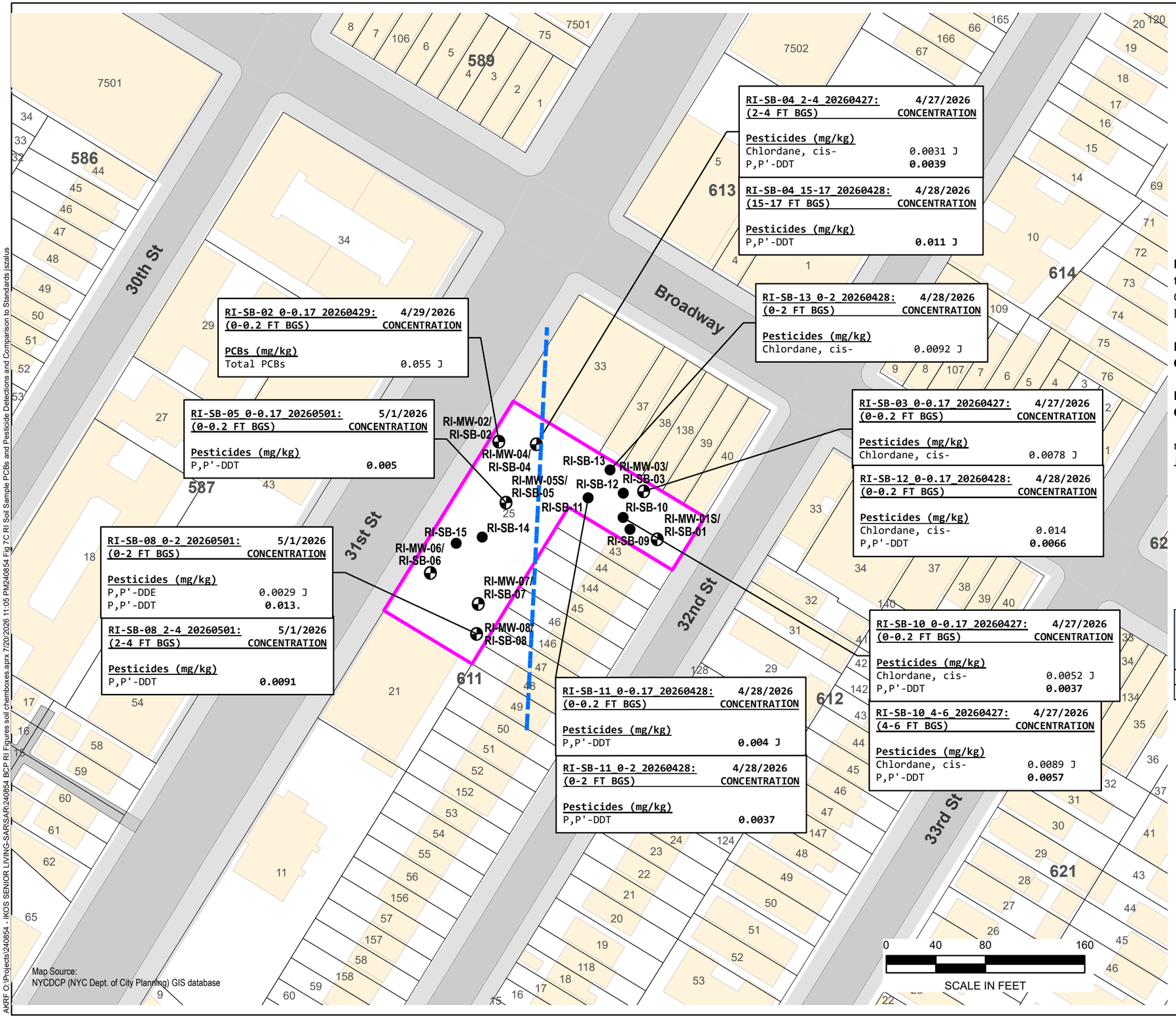
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RI SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS - (WEST)

DATE 7/20/2026
PROJECT NO. 240854
FIGURE 6B

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 10:54 PM 240854 Fig 7B RI Soil Sample SVOC Detections and Comparison to Standards - (West) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- EAST/WEST HALF OF SITE

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Pesticides		
P,P'-DDT	3.8	0.0033

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION
Metals (mg/kg)
Lead **109**

Analyte/Compound — Concentration

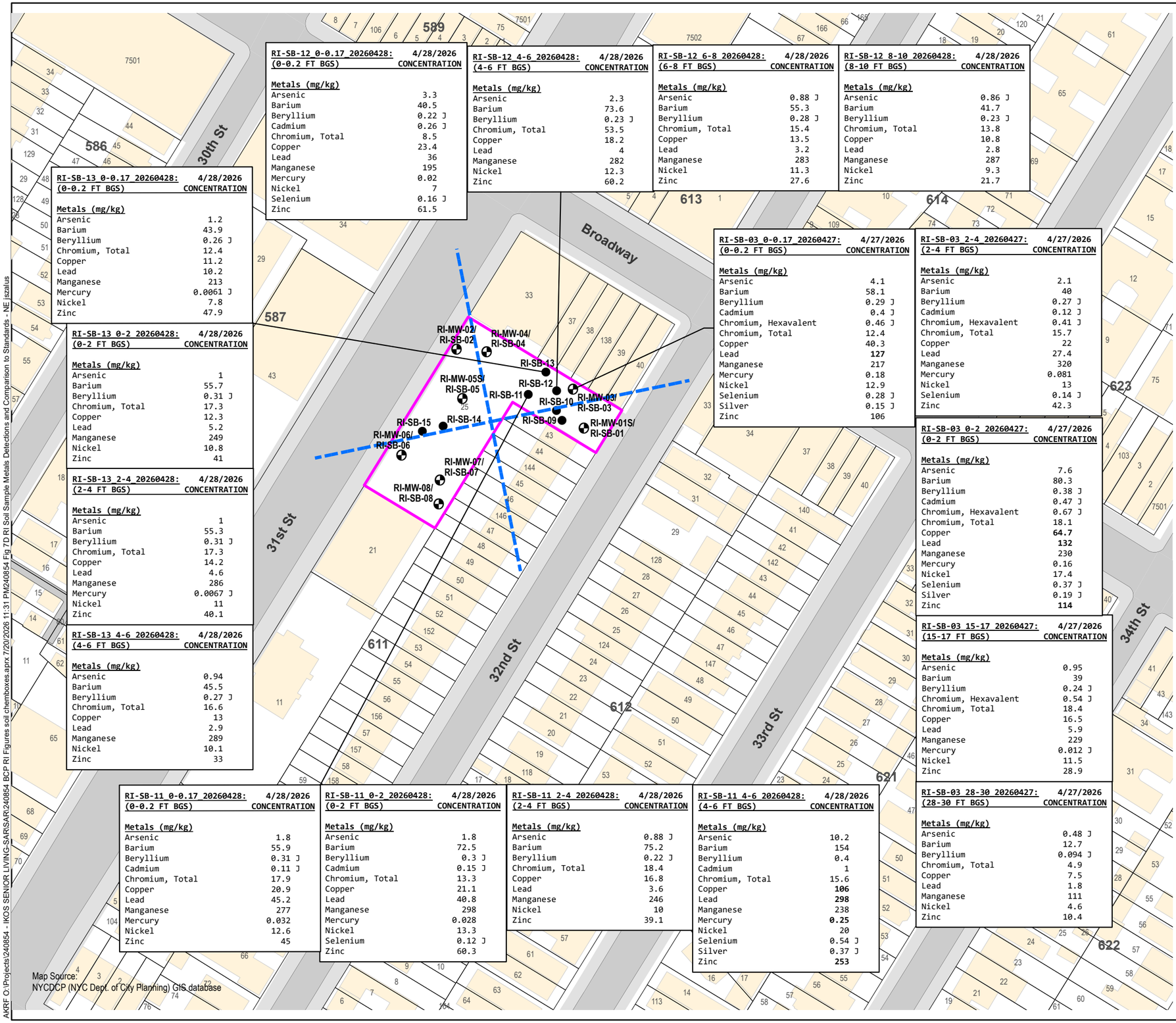
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RI SOIL SAMPLE PCBS AND PESTICIDE DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/20/2026
PROJECT NO. 240854
FIGURE 6C

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:05 PM240854 Fig 7C RI Soil Sample PCBs and Pesticide Detections and Comparison to Standards jszalus



RI-SB-12_0-0.17_20260428: (0-0.2 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	3.3
Barium	40.5
Beryllium	0.22 J
Cadmium	0.26 J
Chromium, Total	8.5
Copper	23.4
Lead	36
Manganese	195
Mercury	0.02
Nickel	7
Selenium	0.16 J
Zinc	61.5

RI-SB-12_4-6_20260428: (4-6 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	2.3
Barium	73.6
Beryllium	0.23 J
Chromium, Total	53.5
Copper	18.2
Lead	4
Manganese	282
Nickel	12.3
Zinc	60.2

RI-SB-12_6-8_20260428: (6-8 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.88 J
Barium	55.3
Beryllium	0.28 J
Chromium, Total	15.4
Copper	13.5
Lead	3.2
Manganese	283
Nickel	11.3
Zinc	27.6

RI-SB-12_8-10_20260428: (8-10 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.86 J
Barium	41.7
Beryllium	0.23 J
Chromium, Total	13.8
Copper	10.8
Lead	2.8
Manganese	287
Nickel	9.3
Zinc	21.7

RI-SB-13_0-0.17_20260428: (0-0.2 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.2
Barium	43.9
Beryllium	0.26 J
Chromium, Total	12.4
Copper	11.2
Lead	10.2
Manganese	213
Mercury	0.0061 J
Nickel	7.8
Zinc	47.9

RI-SB-13_0-2_20260428: (0-2 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1
Barium	55.7
Beryllium	0.31 J
Chromium, Total	17.3
Copper	12.3
Lead	5.2
Manganese	249
Nickel	10.8
Zinc	41

RI-SB-13_2-4_20260428: (2-4 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1
Barium	55.3
Beryllium	0.31 J
Chromium, Total	17.3
Copper	14.2
Lead	4.6
Manganese	286
Mercury	0.0067 J
Nickel	11
Zinc	40.1

RI-SB-13_4-6_20260428: (4-6 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.94
Barium	45.5
Beryllium	0.27 J
Chromium, Total	16.6
Copper	13
Lead	2.9
Manganese	289
Nickel	10.1
Zinc	33

RI-SB-03_0-0.17_20260427: (0-0.2 FT BGS) — 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	4.1
Barium	58.1
Beryllium	0.29 J
Cadmium	0.4 J
Chromium, Hexavalent	0.46 J
Chromium, Total	12.4
Copper	40.3
Lead	**127**
Manganese	217
Mercury	0.18
Nickel	12.9
Selenium	0.28 J
Silver	0.15 J
Zinc	106

RI-SB-03_2-4_20260427: (2-4 FT BGS) — 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	2.1
Barium	40
Beryllium	0.27 J
Cadmium	0.12 J
Chromium, Hexavalent	0.41 J
Chromium, Total	15.7
Copper	22
Lead	27.4
Manganese	320
Mercury	0.081
Nickel	13
Selenium	0.14 J
Zinc	42.3

RI-SB-03_0-2_20260427: (0-2 FT BGS) — 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	7.6
Barium	80.3
Beryllium	0.38 J
Cadmium	0.47 J
Chromium, Hexavalent	0.67 J
Chromium, Total	18.1
Copper	**64.7**
Lead	**132**
Manganese	230
Mercury	0.16
Nickel	17.4
Selenium	0.37 J
Silver	0.19 J
Zinc	**114**

RI-SB-03_15-17_20260427: (15-17 FT BGS) — 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.95
Barium	39
Beryllium	0.24 J
Chromium, Hexavalent	0.54 J
Chromium, Total	18.4
Copper	16.5
Lead	5.9
Manganese	229
Mercury	0.012 J
Nickel	11.5
Zinc	28.9

RI-SB-03_28-30_20260427: (28-30 FT BGS) — 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.48 J
Barium	12.7
Beryllium	0.094 J
Chromium, Total	4.9
Copper	7.5
Lead	1.8
Manganese	111
Nickel	4.6
Zinc	10.4

RI-SB-11_0-0.17_20260428: (0-0.2 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.8
Barium	55.9
Beryllium	0.31 J
Cadmium	0.11 J
Chromium, Total	17.9
Copper	20.9
Lead	45.2
Manganese	277
Mercury	0.032
Nickel	12.6
Zinc	45

RI-SB-11_0-2_20260428: (0-2 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.8
Barium	72.5
Beryllium	0.3 J
Cadmium	0.15 J
Chromium, Total	13.3
Copper	21.1
Lead	40.8
Manganese	298
Mercury	0.028
Nickel	13.3
Selenium	0.12 J
Zinc	60.3

RI-SB-11_2-4_20260428: (2-4 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.88 J
Barium	75.2
Beryllium	0.22 J
Chromium, Total	18.4
Copper	16.8
Lead	3.6
Manganese	246
Nickel	10
Zinc	39.1

RI-SB-11_4-6_20260428: (4-6 FT BGS) — 4/28/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	10.2
Barium	154
Beryllium	0.4
Cadmium	1
Chromium, Total	15.6
Copper	**106**
Lead	**298**
Manganese	238
Mercury	**0.25**
Nickel	20
Selenium	0.54 J
Silver	0.37 J
Zinc	**253**

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12_0-2_20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

Metals (mg/kg)	
Lead	109

Analyte/Compound — Concentration

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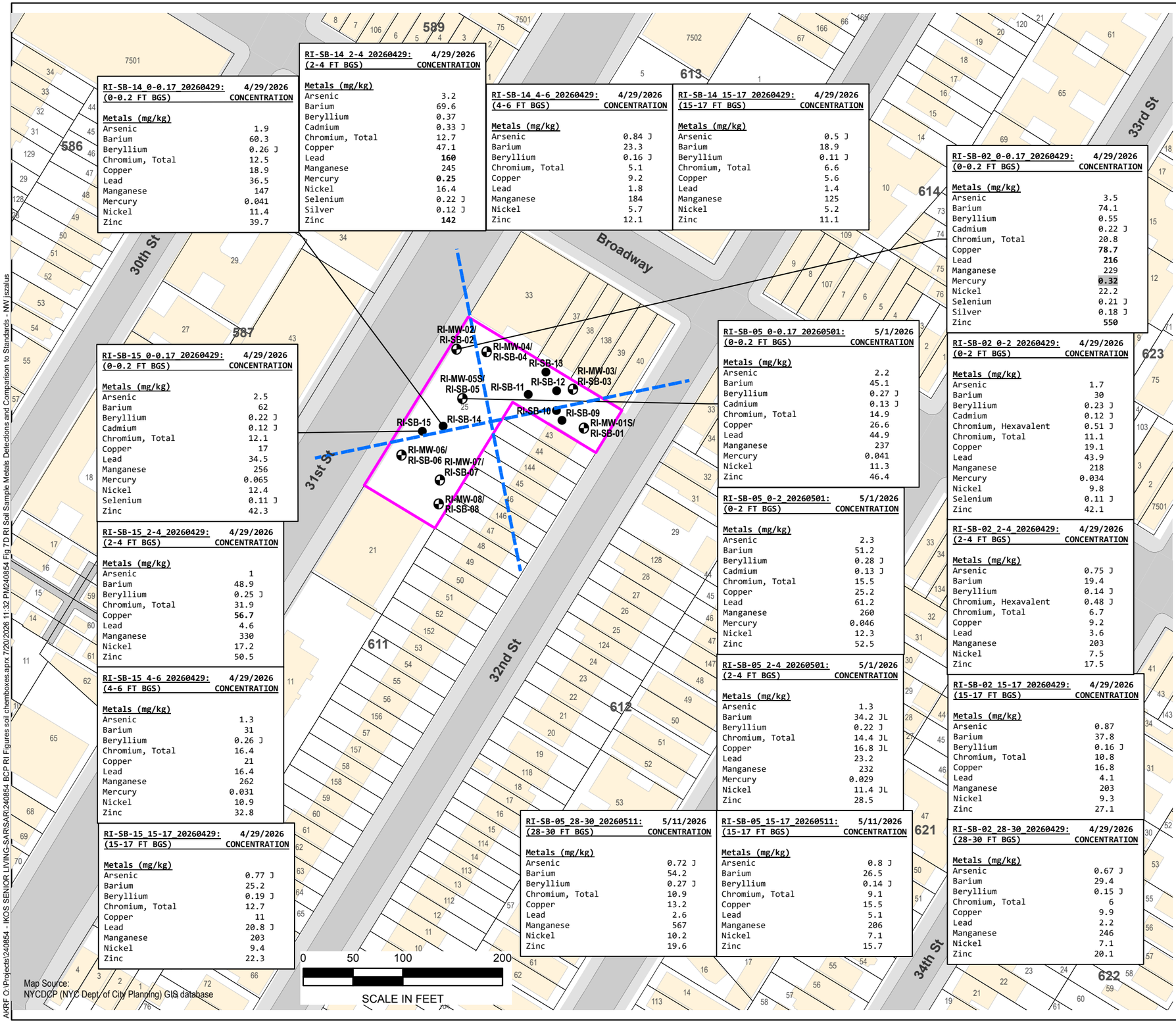
RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - NE

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
6D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:31 PM240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - NE jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

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440 Park Avenue South, New York, NY 10016

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Queens, New York

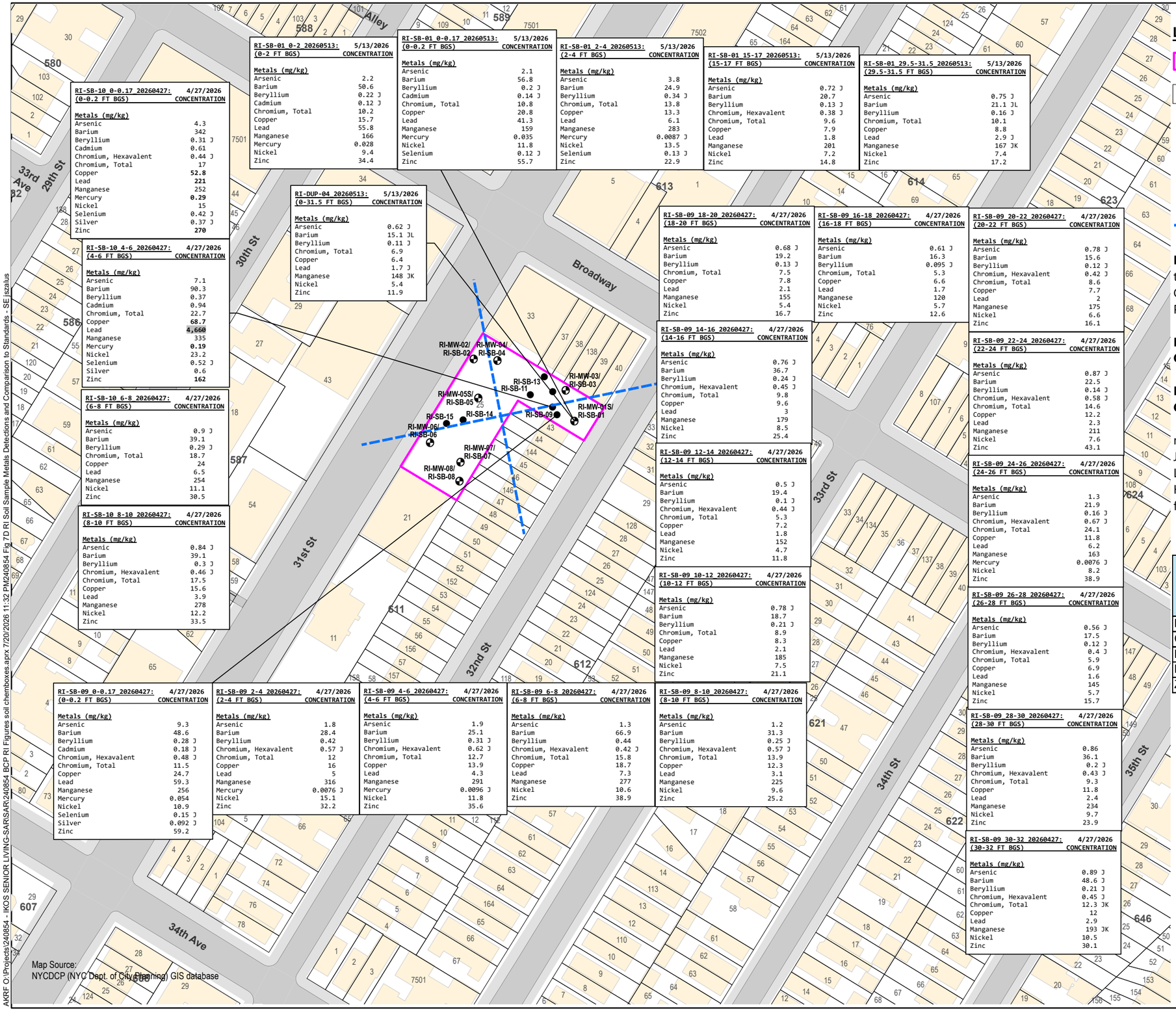
RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - NW

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
6D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:32 PM240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - NW jszalus



RI-SB-10 0-0.17 20260427: 4/27/2026
(0-0.2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	4.3
Barium	342
Beryllium	0.31 J
Cadmium	0.61
Chromium, Hexavalent	0.44 J
Chromium, Total	17
Copper	**52.8**
Lead	**221**
Manganese	252
Mercury	**0.29**
Nickel	15
Selenium	0.42 J
Silver	0.37 J
Zinc	**270**

RI-SB-10 4-6 20260427: 4/27/2026
(4-6 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	7.1
Barium	90.3
Beryllium	0.37
Cadmium	0.94
Chromium, Total	22.7
Copper	**68.7**
Lead	**4,660**
Manganese	335
Mercury	**0.19**
Nickel	23.2
Selenium	0.52 J
Silver	0.6
Zinc	**162**

RI-SB-10 6-8 20260427: 4/27/2026
(6-8 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.9 J
Barium	39.1
Beryllium	0.29 J
Chromium, Total	18.7
Copper	24
Lead	6.5
Manganese	254
Nickel	11.1
Zinc	30.5

RI-SB-10 8-10 20260427: 4/27/2026
(8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.84 J
Barium	39.1
Beryllium	0.3 J
Chromium, Hexavalent	0.46 J
Chromium, Total	17.5
Copper	15.6
Lead	3.9
Manganese	278
Nickel	12.2
Zinc	33.5

RI-SB-01 0-2 20260513: 5/13/2026
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.2
Barium	50.6
Beryllium	0.22 J
Cadmium	0.12 J
Chromium, Total	10.2
Copper	15.7
Lead	55.8
Manganese	166
Mercury	0.028
Nickel	9.4
Zinc	34.4

RI-SB-01 0-0.17 20260513: 5/13/2026
(0-0.2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.1
Barium	56.8
Beryllium	0.2 J
Cadmium	0.14 J
Chromium, Total	10.8
Copper	20.8
Lead	41.3
Manganese	159
Mercury	0.035
Nickel	11.8
Selenium	0.12 J
Zinc	55.7

RI-SB-01 2-4 20260513: 5/13/2026
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.8
Barium	24.9
Beryllium	0.34 J
Chromium, Total	13.8
Copper	13.3
Lead	6.1
Manganese	283
Mercury	0.0087 J
Nickel	13.5
Selenium	0.13 J
Zinc	22.9

RI-SB-01 15-17 20260513: 5/13/2026
(15-17 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.72 J
Barium	20.7
Beryllium	0.13 J
Chromium, Hexavalent	0.38 J
Chromium, Total	9.6
Copper	7.9
Lead	1.8
Manganese	201
Nickel	7.2
Zinc	14.8

RI-SB-01 29.5-31.5 20260513: 5/13/2026
(29.5-31.5 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.75 J
Barium	21.1 JL
Beryllium	0.16 J
Chromium, Total	10.1
Copper	8.8
Lead	2.9 J
Manganese	167 JK
Nickel	7.4
Zinc	17.2

RI-DUP-04 20260513: 5/13/2026
(0-31.5 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.62 J
Barium	15.1 JL
Beryllium	0.11 J
Chromium, Total	6.9
Copper	6.4
Lead	1.7 J
Manganese	148 JK
Nickel	5.4
Zinc	11.9

RI-SB-09 18-20 20260427: 4/27/2026
(18-20 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.68 J
Barium	19.2
Beryllium	0.13 J
Chromium, Total	7.5
Copper	7.8
Lead	2.1
Manganese	155
Nickel	5.4
Zinc	16.7

RI-SB-09 16-18 20260427: 4/27/2026
(16-18 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.61 J
Barium	16.3
Beryllium	0.095 J
Chromium, Total	5.3
Copper	6.6
Lead	1.7
Manganese	120
Nickel	5.7
Zinc	12.6

RI-SB-09 20-22 20260427: 4/27/2026
(20-22 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.78 J
Barium	15.6
Beryllium	0.12 J
Chromium, Hexavalent	0.42 J
Chromium, Total	8.6
Copper	7.7
Lead	2
Manganese	175
Nickel	6.6
Zinc	16.1

RI-SB-09 14-16 20260427: 4/27/2026
(14-16 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.76 J
Barium	36.7
Beryllium	0.24 J
Chromium, Hexavalent	0.45 J
Chromium, Total	9.8
Copper	9.6
Lead	3
Manganese	179
Nickel	8.5
Zinc	25.4

RI-SB-09 22-24 20260427: 4/27/2026
(22-24 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.87 J
Barium	22.5
Beryllium	0.14 J
Chromium, Hexavalent	0.58 J
Chromium, Total	14.6
Copper	12.2
Lead	2.3
Manganese	211
Nickel	7.6
Zinc	43.1

RI-SB-09 12-14 20260427: 4/27/2026
(12-14 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.5 J
Barium	19.4
Beryllium	0.1 J
Chromium, Hexavalent	0.44 J
Chromium, Total	5.3
Copper	7.2
Lead	1.8
Manganese	152
Nickel	4.7
Zinc	11.8

RI-SB-09 24-26 20260427: 4/27/2026
(24-26 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.3
Barium	21.9
Beryllium	0.16 J
Chromium, Hexavalent	0.67 J
Chromium, Total	24.1
Copper	11.8
Lead	6.2
Manganese	163
Mercury	0.0076 J
Nickel	8.2
Zinc	38.9

RI-SB-09 10-12 20260427: 4/27/2026
(10-12 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.78 J
Barium	18.7
Beryllium	0.21 J
Chromium, Total	8.9
Copper	8.3
Lead	2.1
Manganese	185
Nickel	7.5
Zinc	21.1

RI-SB-09 26-28 20260427: 4/27/2026
(26-28 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.56 J
Barium	17.5
Beryllium	0.12 J
Chromium, Hexavalent	0.4 J
Chromium, Total	5.9
Copper	6.9
Lead	1.6
Manganese	145
Nickel	5.7
Zinc	15.7

RI-SB-09 0-0.17 20260427: 4/27/2026
(0-0.2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	9.3
Barium	48.6
Beryllium	0.28 J
Cadmium	0.18 J
Chromium, Hexavalent	0.48 J
Chromium, Total	11.5
Copper	24.7
Lead	59.3
Manganese	256
Mercury	0.054
Nickel	10.9
Selenium	0.15 J
Silver	0.092 J
Zinc	59.2

RI-SB-09 2-4 20260427: 4/27/2026
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.8
Barium	28.4
Beryllium	0.42
Chromium, Hexavalent	0.57 J
Chromium, Total	12
Copper	16
Lead	5
Manganese	316
Mercury	0.0076 J
Nickel	15.1
Zinc	32.2

RI-SB-09 4-6 20260427: 4/27/2026
(4-6 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.9
Barium	25.1
Beryllium	0.31 J
Chromium, Hexavalent	0.62 J
Chromium, Total	12.7
Copper	13.9
Lead	4.3
Manganese	291
Mercury	0.0096 J
Nickel	11.8
Zinc	35.6

RI-SB-09 6-8 20260427: 4/27/2026
(6-8 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.3
Barium	66.9
Beryllium	0.44
Chromium, Hexavalent	0.42 J
Chromium, Total	15.8
Copper	18.7
Lead	7.3
Manganese	277
Nickel	10.6
Zinc	38.9

RI-SB-09 8-10 20260427: 4/27/2026
(8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.2
Barium	31.3
Beryllium	0.25 J
Chromium, Hexavalent	0.57 J
Chromium, Total	13.9
Copper	12.3
Lead	3.1
Manganese	225
Nickel	9.6
Zinc	25.2

RI-SB-09 28-30 20260427: 4/27/2026
(28-30 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.86
Barium	36.1
Beryllium	0.2 J
Chromium, Hexavalent	0.43 J
Chromium, Total	9.3
Copper	11.8
Lead	2.4
Manganese	234
Nickel	9.7
Zinc	23.9

RI-SB-09 30-32 20260427: 4/27/2026
(30-32 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.89 J
Barium	48.6 J
Beryllium	0.21 J
Chromium, Hexavalent	0.45 J
Chromium, Total	12.3 JK
Copper	12
Lead	2.9
Manganese	193 JK
Nickel	10.5
Zinc	30.1

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
L: Sample result is estimated and biased low.
K: Reported concentration value is proportional to dilution factor and may be exaggerated.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 125 250
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	**109**

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

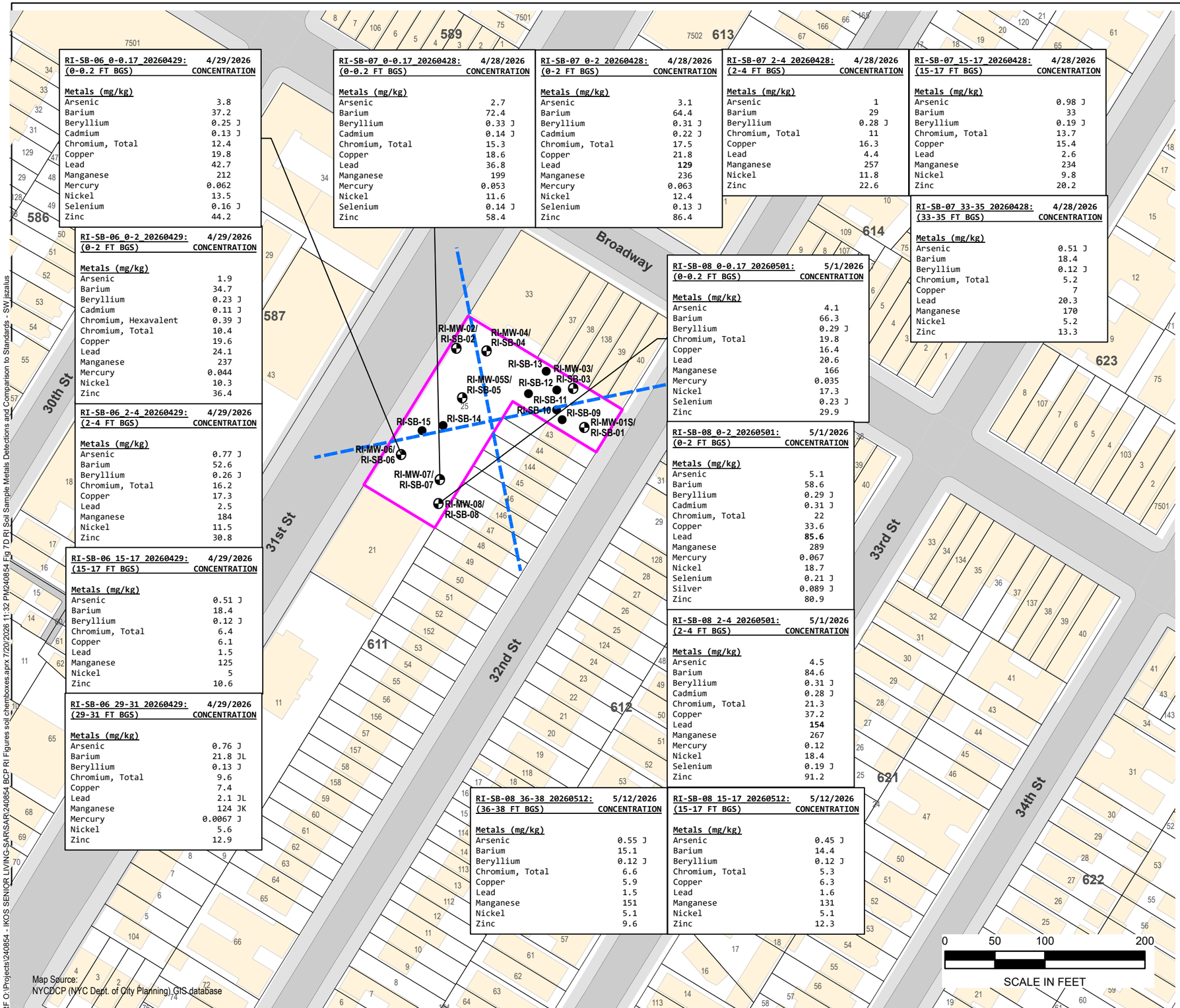
RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - SE

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
6D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARS\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:32 PM240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - SE jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
L: Sample result is estimated and biased low.
K: Reported concentration value is proportional to dilution factor and may be exaggerated.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)
Lead **109**

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

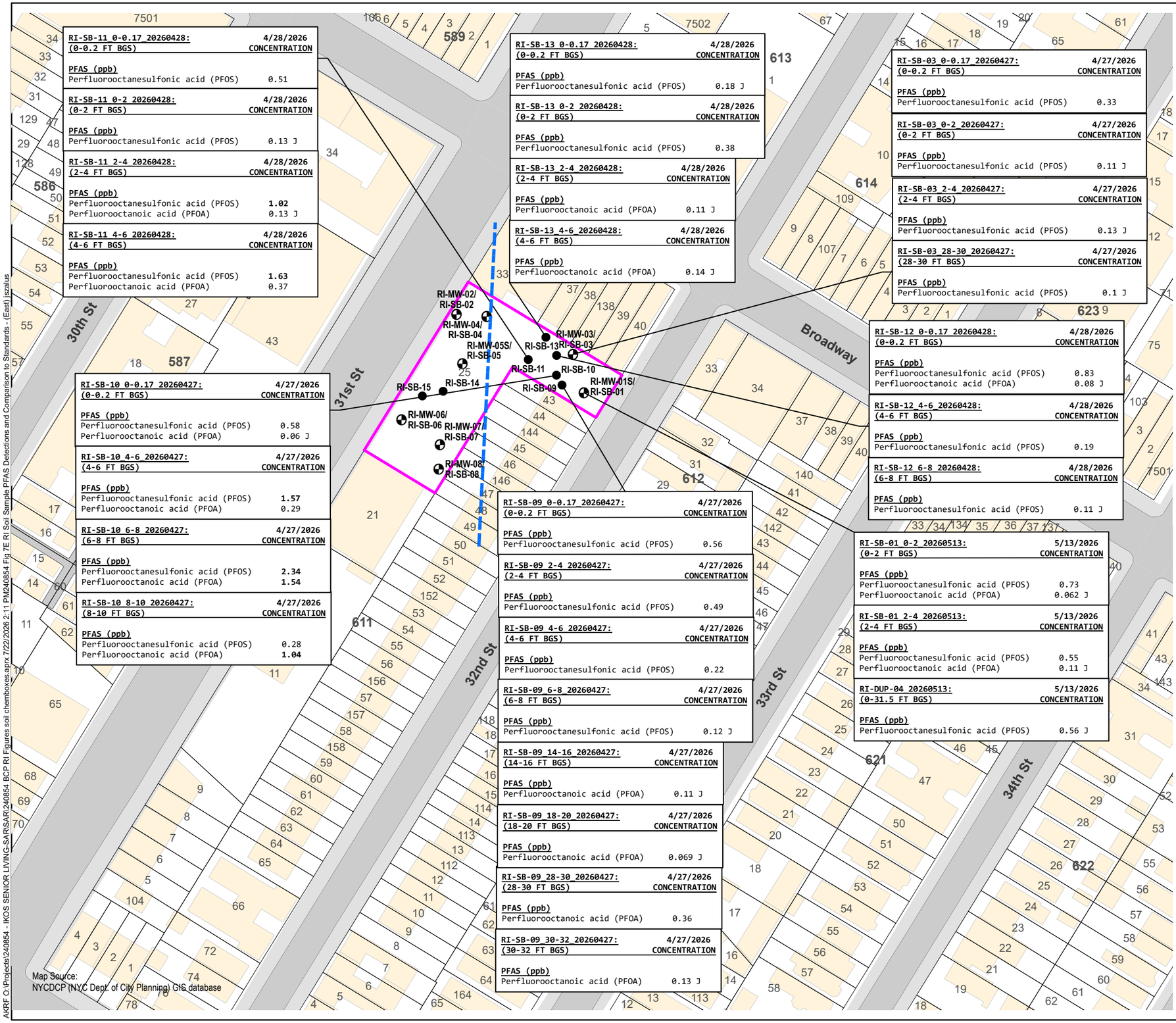
RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - SW

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
6D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854_BCP RI Figures soil chemboxes.aprx 7/20/2026 11:32 PM240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - SW jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- 2389 BLOCK NUMBER
- EAST/WEST HALF OF SITE
- SOIL BORING
- SOIL BORING/MONITORING WELL

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PFAS GUIDANCE VALUES RRSCOs ppb	PFAS GUIDANCE VALUES UUSCOs ppb
PFAS		
Perfluorooctanesulfonic acid (PFOS)	44	0.88
Perfluorooctanoic acid (PFOA)	33	0.66

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

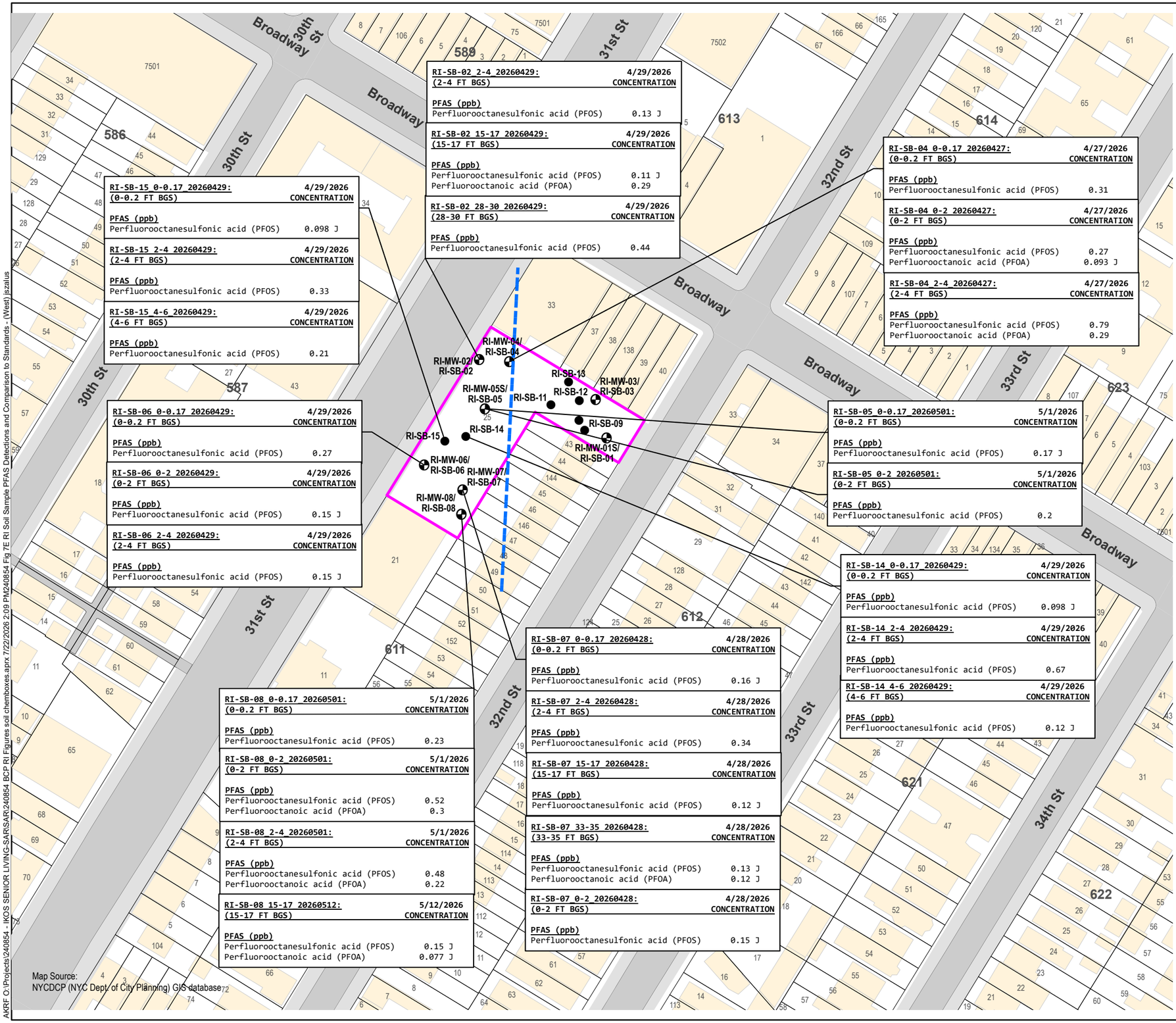
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Queens, New York

RI SOIL SAMPLE PFAS DETECTIONS AND COMPARISON TO STANDARDS - (EAST)

DATE 7/22/2026
PROJECT NO. 240854
FIGURE 6E

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes aprx 7/22/2026 2:11 PM240854 Fig 7E RI Soil Sample PFAS Detections and Comparison to Standards - (East) jazalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- EAST/WEST HALF OF SITE
- SOIL BORING
- SOIL BORING/MONITORING WELL

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PFAS GUIDANCE VALUES RRSCOs ppb	PFAS GUIDANCE VALUES UUSCOs ppb
PFAS		
Perfluorooctanesulfonic acid (PFOS)	44	0.88
Perfluorooctanoic acid (PFOA)	33	0.66

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

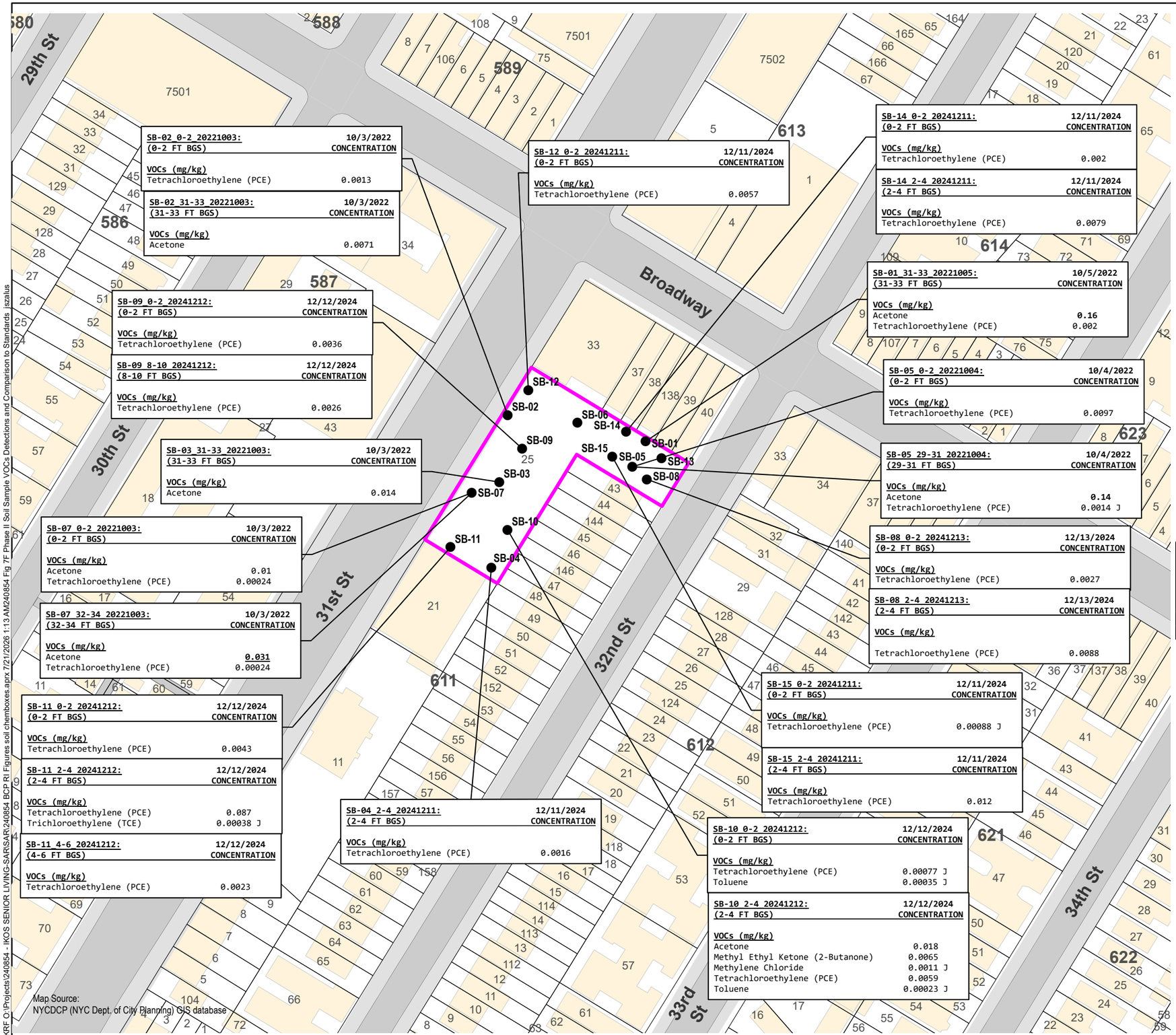
akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

RI SOIL SAMPLE PFAS DETECTIONS AND COMPARISON TO STANDARDS - (WEST)

DATE 7/22/2026
PROJECT NO. 240854
FIGURE 6E

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/22/2026 2:09 PM240854 Fig 7E RI Soil Sample PFAS Detections and Comparison to Standards - (West) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION

N

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

Exceedances of NYSDEC Protected Groundwater Soil Cleanup Objectives (PGWSCOs) are presented in underlined font.

	PART 375 PROTECTION OF GROUNDWATER (mg/kg)	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
VOCs			
Acetone	0.03	100	0.03

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION
VOCs (mg/kg)
Tetrachloroethylene (PCE) 0.0057

Analyte/Compound — Concentration

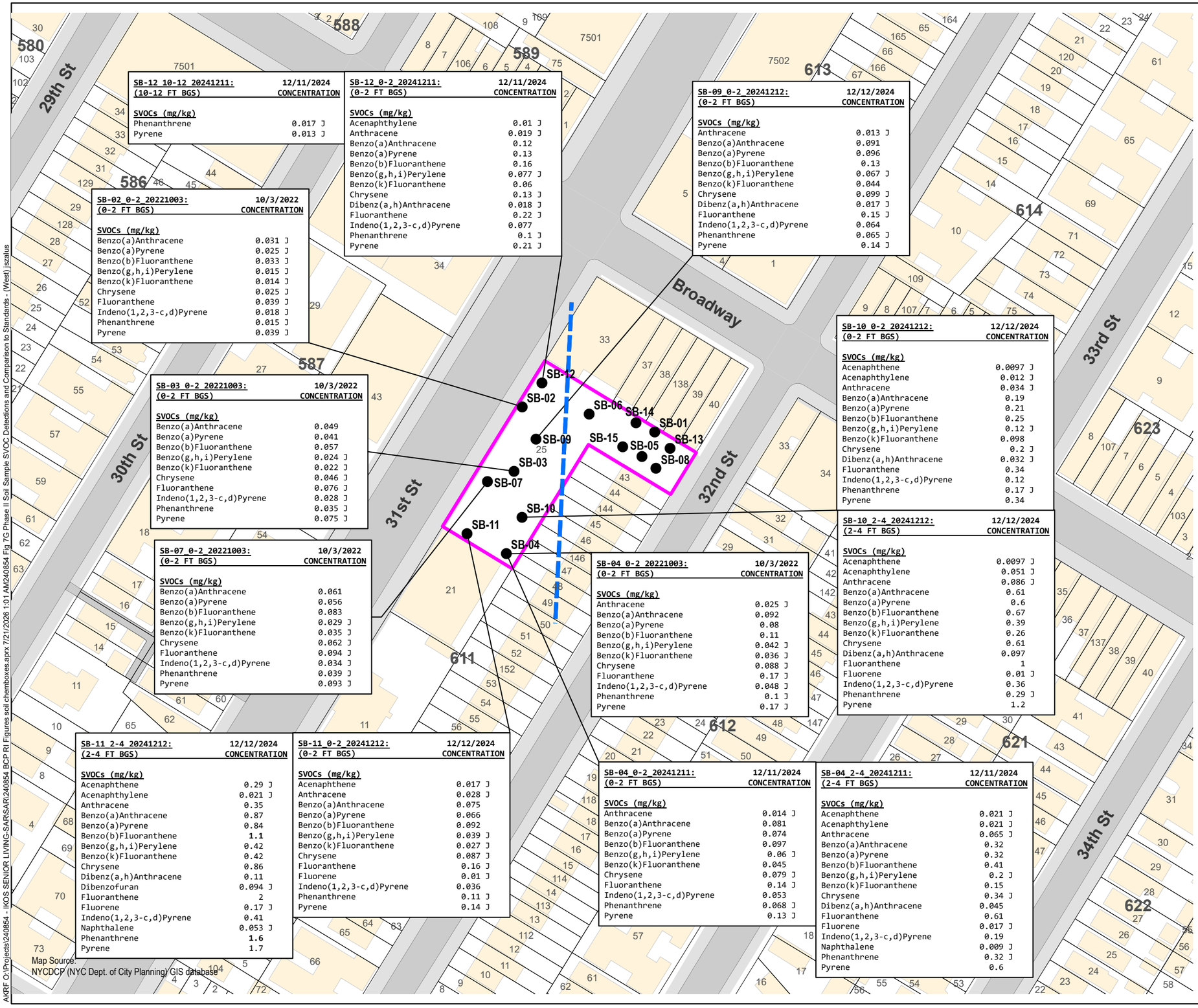
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PHASE II SOIL SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 6F

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 1:13 AM jszalus
Figure II Soil Sample VOCs Detections and Comparison to Standards



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- EAST/WEST HALF OF SITE
- SOIL SAMPLE LOCATION

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

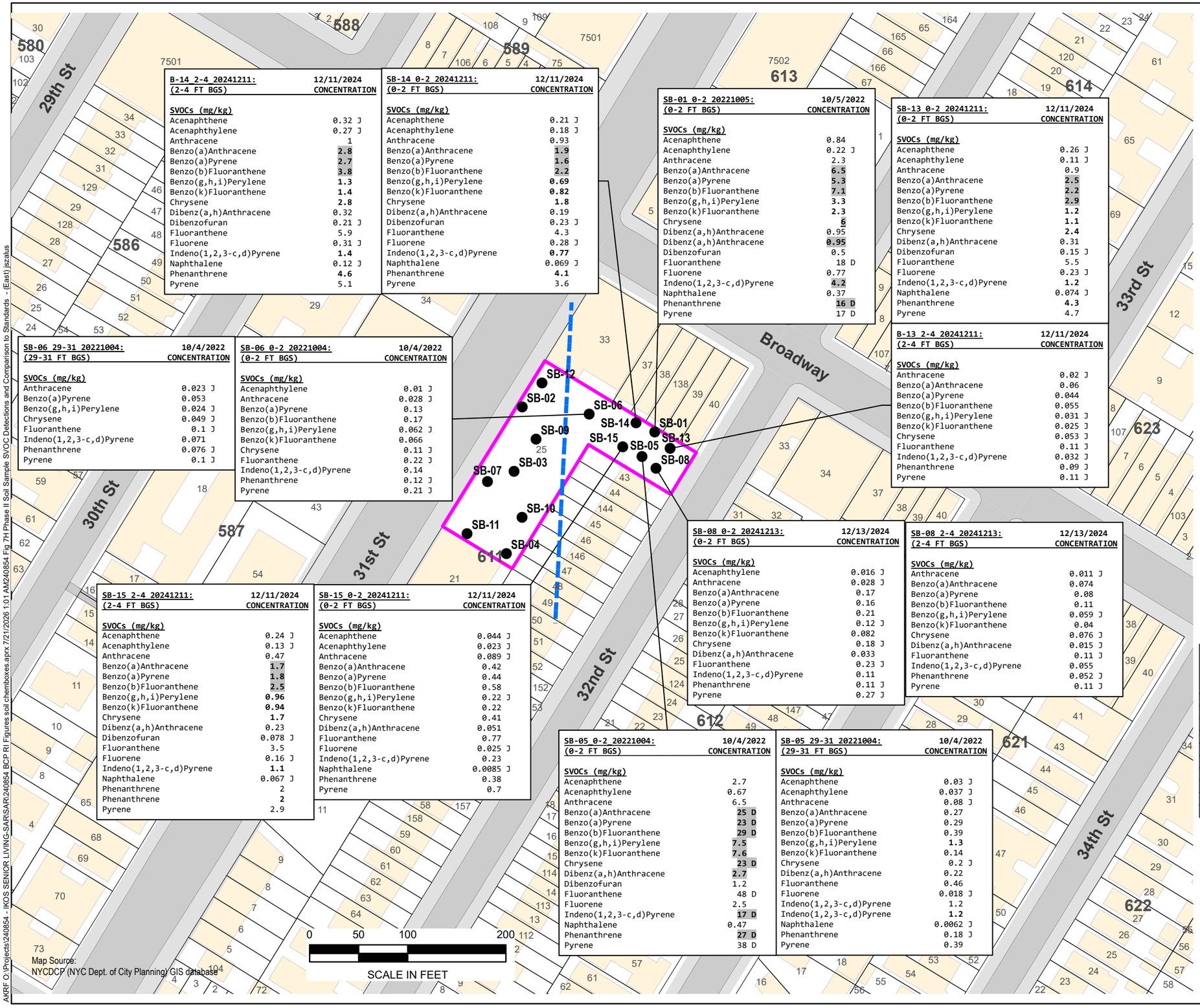
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440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS (WEST)

32-11 31st Street
Queens, New York

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 6G

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 1:01 AM240854 Fig 7G Phase II Soil Sample SVOC Detections and Comparison to Standards - (West) jszalus



B-14 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.32 J
Acenaphthylene	0.27 J
Anthracene	1
Benzo(a)Anthracene	2.8
Benzo(a)Pyrene	2.7
Benzo(b)Fluoranthene	3.8
Benzo(g,h,i)Perylene	1.3
Benzo(k)Fluoranthene	1.4
Chrysene	2.8
Dibenz(a,h)Anthracene	0.32
Dibenzofuran	0.21 J
Fluoranthene	5.9
Fluorene	0.31 J
Indeno(1,2,3-c,d)Pyrene	1.4
Naphthalene	0.12 J
Phenanthrene	4.6
Pyrene	5.1

SB-14 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.21 J
Acenaphthylene	0.18 J
Anthracene	0.93
Benzo(a)Anthracene	1.9
Benzo(a)Pyrene	1.6
Benzo(b)Fluoranthene	2.2
Benzo(g,h,i)Perylene	0.69
Benzo(k)Fluoranthene	0.82
Chrysene	1.8
Dibenz(a,h)Anthracene	0.19
Dibenzofuran	0.23 J
Fluoranthene	4.3
Fluorene	0.28 J
Indeno(1,2,3-c,d)Pyrene	0.77
Naphthalene	0.069 J
Phenanthrene	4.1
Pyrene	3.6

SB-01 0-2 20221005: (0-2 FT BGS) — 10/5/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.84
Acenaphthylene	0.22 J
Anthracene	2.3
Benzo(a)Anthracene	6.5
Benzo(a)Pyrene	5.3
Benzo(b)Fluoranthene	7.1
Benzo(g,h,i)Perylene	3.3
Benzo(k)Fluoranthene	2.3
Chrysene	6
Dibenz(a,h)Anthracene	0.95
Dibenz(a,h)Anthracene	0.95
Dibenzofuran	0.5
Fluoranthene	18 D
Fluorene	0.77
Indeno(1,2,3-c,d)Pyrene	4.2
Naphthalene	0.37
Phenanthrene	16 D
Pyrene	17 D

SB-13 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.26 J
Acenaphthylene	0.11 J
Anthracene	0.9
Benzo(a)Anthracene	2.5
Benzo(a)Pyrene	2.2
Benzo(b)Fluoranthene	2.9
Benzo(g,h,i)Perylene	1.2
Benzo(k)Fluoranthene	1.1
Chrysene	2.4
Dibenz(a,h)Anthracene	0.31
Dibenzofuran	0.15 J
Fluoranthene	5.5
Fluorene	0.23 J
Indeno(1,2,3-c,d)Pyrene	1.2
Naphthalene	0.074 J
Phenanthrene	4.3
Pyrene	4.7

B-13 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Anthracene	0.02 J
Benzo(a)Anthracene	0.06
Benzo(a)Pyrene	0.044
Benzo(b)Fluoranthene	0.055
Benzo(g,h,i)Perylene	0.031 J
Benzo(k)Fluoranthene	0.025 J
Chrysene	0.053 J
Fluoranthene	0.11 J
Indeno(1,2,3-c,d)Pyrene	0.032 J
Phenanthrene	0.09 J
Pyrene	0.11 J

SB-06 29-31 20221004: (29-31 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Anthracene	0.023 J
Benzo(a)Pyrene	0.053
Benzo(g,h,i)Perylene	0.024 J
Chrysene	0.049 J
Fluoranthene	0.1 J
Indeno(1,2,3-c,d)Pyrene	0.071
Phenanthrene	0.076 J
Pyrene	0.1 J

SB-06 0-2 20221004: (0-2 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthylene	0.01 J
Anthracene	0.028 J
Benzo(a)Pyrene	0.13
Benzo(b)Fluoranthene	0.17
Benzo(g,h,i)Perylene	0.062 J
Benzo(k)Fluoranthene	0.066
Chrysene	0.11 J
Fluoranthene	0.22 J
Indeno(1,2,3-c,d)Pyrene	0.14
Phenanthrene	0.12 J
Pyrene	0.21 J

SB-08 0-2 20241213: (0-2 FT BGS) — 12/13/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthylene	0.016 J
Anthracene	0.028 J
Benzo(a)Anthracene	0.17
Benzo(a)Pyrene	0.16
Benzo(b)Fluoranthene	0.21
Benzo(g,h,i)Perylene	0.12 J
Benzo(k)Fluoranthene	0.082
Chrysene	0.18 J
Dibenz(a,h)Anthracene	0.033
Fluoranthene	0.23 J
Indeno(1,2,3-c,d)Pyrene	0.11
Phenanthrene	0.11 J
Pyrene	0.27 J

SB-08 2-4 20241213: (2-4 FT BGS) — 12/13/2024 CONCENTRATION

SVOCs (mg/kg)	
Anthracene	0.011 J
Benzo(a)Anthracene	0.074
Benzo(a)Pyrene	0.08
Benzo(b)Fluoranthene	0.11
Benzo(g,h,i)Perylene	0.059 J
Benzo(k)Fluoranthene	0.04
Chrysene	0.076 J
Dibenz(a,h)Anthracene	0.015 J
Fluoranthene	0.11 J
Indeno(1,2,3-c,d)Pyrene	0.055
Phenanthrene	0.052 J
Pyrene	0.11 J

SB-15 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.24 J
Acenaphthylene	0.13 J
Anthracene	0.47
Benzo(a)Anthracene	1.7
Benzo(a)Pyrene	1.8
Benzo(b)Fluoranthene	2.5
Benzo(g,h,i)Perylene	0.96
Benzo(k)Fluoranthene	0.94
Chrysene	1.7
Dibenz(a,h)Anthracene	0.23
Dibenzofuran	0.078 J
Fluoranthene	3.5
Fluorene	0.16 J
Indeno(1,2,3-c,d)Pyrene	1.1
Naphthalene	0.067 J
Phenanthrene	2
Phenanthrene	2
Pyrene	2.9

SB-15 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.044 J
Acenaphthylene	0.023 J
Anthracene	0.089 J
Benzo(a)Anthracene	0.42
Benzo(a)Pyrene	0.44
Benzo(b)Fluoranthene	0.58
Benzo(g,h,i)Perylene	0.22 J
Benzo(k)Fluoranthene	0.22
Chrysene	0.41
Dibenz(a,h)Anthracene	0.051
Fluoranthene	0.77
Fluorene	0.025 J
Indeno(1,2,3-c,d)Pyrene	0.23
Naphthalene	0.0085 J
Phenanthrene	0.38
Pyrene	0.7

SB-05 0-2 20221004: (0-2 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	2.7
Acenaphthylene	0.67
Anthracene	6.5
Benzo(a)Anthracene	25 D
Benzo(a)Pyrene	23 D
Benzo(b)Fluoranthene	29 D
Benzo(g,h,i)Perylene	7.5
Benzo(k)Fluoranthene	7.6
Chrysene	23 D
Dibenz(a,h)Anthracene	2.7
Dibenzofuran	1.2
Fluoranthene	48 D
Fluorene	2.5
Indeno(1,2,3-c,d)Pyrene	17 D
Naphthalene	0.47
Phenanthrene	27 D
Pyrene	38 D

SB-05 29-31 20221004: (29-31 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.03 J
Acenaphthylene	0.037 J
Anthracene	0.08 J
Benzo(a)Anthracene	0.27
Benzo(a)Pyrene	0.29
Benzo(b)Fluoranthene	0.39
Benzo(g,h,i)Perylene	1.3
Benzo(k)Fluoranthene	0.14
Chrysene	0.2 J
Dibenz(a,h)Anthracene	0.22
Fluoranthene	0.46
Fluorene	0.018 J
Indeno(1,2,3-c,d)Pyrene	1.2
Indeno(1,2,3-c,d)Pyrene	1.2
Naphthalene	0.0062 J
Phenanthrene	0.18 J
Pyrene	0.39

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION
- EAST/WEST HALF OF SITE

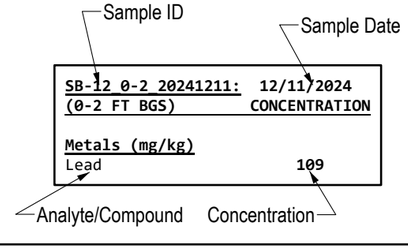
Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits
D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1



akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

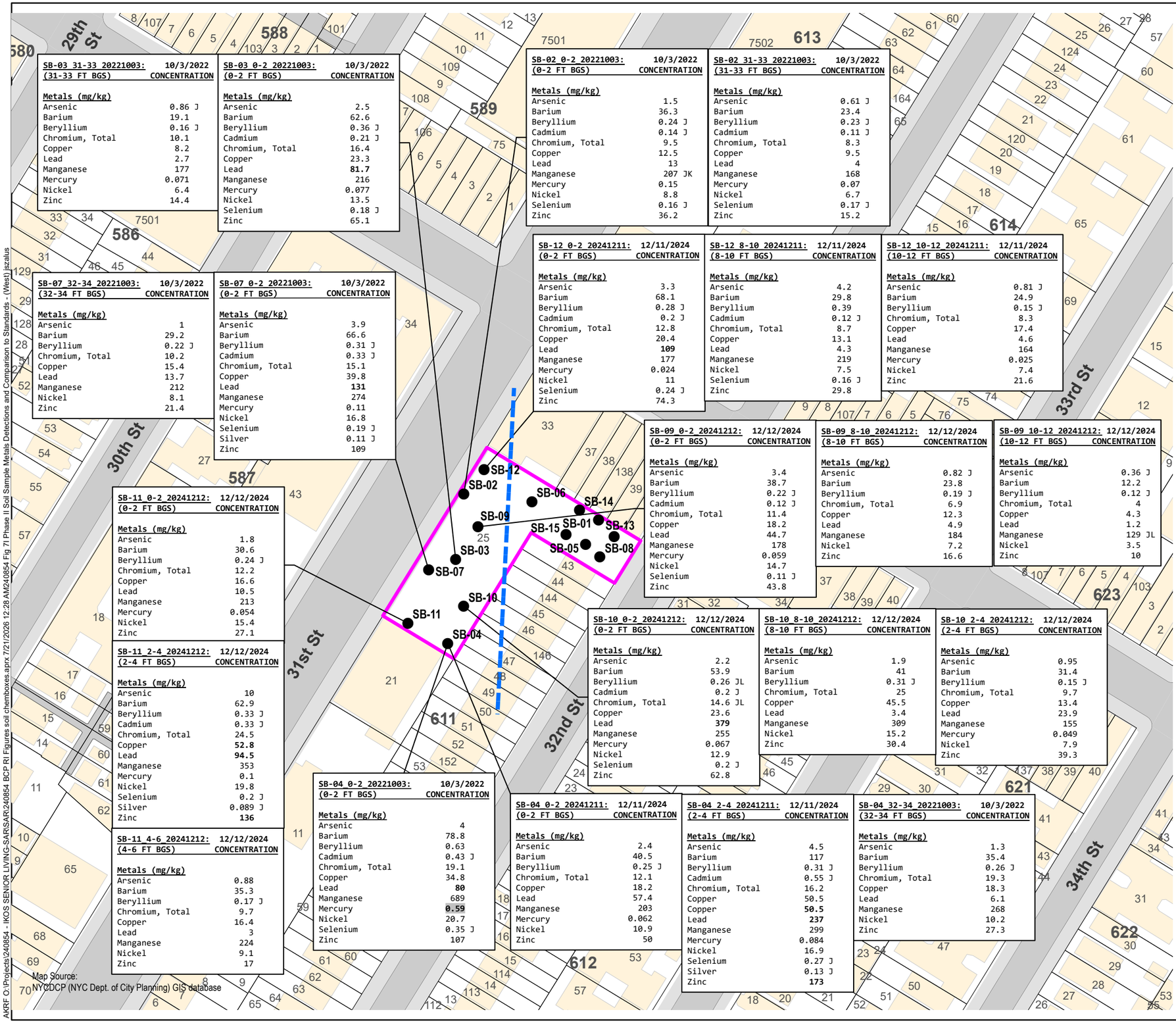
PHASE II SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS (EAST)

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
6H

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 1:01 AM240854 Fig 7H Phase II Soil Sample SVOC Detections and Comparison to Standards - (East) jszalus



SB-03 31-33 20221003: 10/3/2022 (31-33 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.86 J
Barium	19.1
Beryllium	0.16 J
Chromium, Total	10.1
Copper	8.2
Lead	2.7
Manganese	177
Mercury	0.071
Nickel	6.4
Zinc	14.4

SB-03 0-2 20221003: 10/3/2022 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.5
Barium	62.6
Beryllium	0.36 J
Cadmium	0.21 J
Chromium, Total	16.4
Copper	23.3
Lead	**81.7**
Manganese	216
Mercury	0.077
Nickel	13.5
Selenium	0.18 J
Zinc	65.1

SB-07 32-34 20221003: 10/3/2022 (32-34 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1
Barium	29.2
Beryllium	0.22 J
Chromium, Total	10.2
Copper	15.4
Lead	13.7
Manganese	212
Nickel	8.1
Zinc	21.4

SB-07 0-2 20221003: 10/3/2022 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.9
Barium	66.6
Beryllium	0.31 J
Cadmium	0.33 J
Chromium, Total	15.1
Copper	39.8
Lead	**131**
Manganese	274
Mercury	0.11
Nickel	16.8
Selenium	0.19 J
Silver	0.11 J
Zinc	109

SB-11 0-2 20241212: 12/12/2024 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.8
Barium	30.6
Beryllium	0.24 J
Chromium, Total	12.2
Copper	16.6
Lead	10.5
Manganese	213
Mercury	0.054
Nickel	15.4
Zinc	27.1

SB-11 2-4 20241212: 12/12/2024 (2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	10
Barium	62.9
Beryllium	0.33 J
Cadmium	0.33 J
Chromium, Total	24.5
Copper	**52.8**
Lead	**94.5**
Manganese	353
Mercury	0.1
Nickel	19.8
Selenium	0.2 J
Silver	0.089 J
Zinc	**136**

SB-11 4-6 20241212: 12/12/2024 (4-6 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.88
Barium	35.3
Beryllium	0.17 J
Chromium, Total	9.7
Copper	16.4
Lead	3
Manganese	224
Nickel	9.1
Zinc	17

SB-02 0-2 20221003: 10/3/2022 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.5
Barium	36.3
Beryllium	0.24 J
Cadmium	0.14 J
Chromium, Total	9.5
Copper	12.5
Lead	13
Manganese	207 JK
Mercury	0.15
Nickel	8.8
Selenium	0.16 J
Zinc	36.2

SB-02 31-33 20221003: 10/3/2022 (31-33 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.61 J
Barium	23.4
Beryllium	0.23 J
Cadmium	0.11 J
Chromium, Total	8.3
Copper	9.5
Lead	4
Manganese	168
Mercury	0.07
Nickel	6.7
Selenium	0.17 J
Zinc	15.2

SB-12 0-2 20241211: 12/11/2024 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.3
Barium	68.1
Beryllium	0.28 J
Cadmium	0.2 J
Chromium, Total	12.8
Copper	20.4
Lead	**109**
Manganese	177
Mercury	0.024
Nickel	11
Selenium	0.24 J
Zinc	74.3

SB-12 8-10 20241211: 12/11/2024 (8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	4.2
Barium	29.8
Beryllium	0.39
Cadmium	0.12 J
Chromium, Total	8.7
Copper	13.1
Lead	4.3
Manganese	219
Nickel	7.5
Selenium	0.16 J
Zinc	29.8

SB-12 10-12 20241211: 12/11/2024 (10-12 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.81 J
Barium	24.9
Beryllium	0.15 J
Chromium, Total	8.3
Copper	17.4
Lead	4.6
Manganese	164
Mercury	0.025
Nickel	7.4
Zinc	21.6

SB-09 0-2 20241212: 12/12/2024 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.4
Barium	38.7
Beryllium	0.22 J
Cadmium	0.12 J
Chromium, Total	11.4
Copper	18.2
Lead	44.7
Manganese	178
Mercury	0.059
Nickel	14.7
Selenium	0.11 J
Zinc	43.8

SB-09 8-10 20241212: 12/12/2024 (8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.82 J
Barium	23.8
Beryllium	0.19 J
Chromium, Total	6.9
Copper	12.3
Lead	4.9
Manganese	184
Nickel	7.2
Zinc	16.6

SB-09 10-12 20241212: 12/12/2024 (10-12 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.36 J
Barium	12.2
Beryllium	0.12 J
Chromium, Total	4
Copper	4.3
Lead	1.2
Manganese	129 JL
Nickel	3.5
Zinc	10

SB-10 0-2 20241212: 12/12/2024 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.2
Barium	53.9
Beryllium	0.26 JL
Cadmium	0.2 J
Chromium, Total	14.6 JL
Copper	23.6
Lead	**379**
Manganese	255
Mercury	0.067
Nickel	12.9
Selenium	0.2 J
Zinc	62.8

SB-10 8-10 20241212: 12/12/2024 (8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.9
Barium	41
Beryllium	0.31 J
Chromium, Total	25
Copper	45.5
Lead	3.4
Manganese	309
Nickel	15.2
Zinc	30.4

SB-10 2-4 20241212: 12/12/2024 (2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.95
Barium	31.4
Beryllium	0.15 J
Chromium, Total	9.7
Copper	13.4
Lead	23.9
Manganese	155
Mercury	0.049
Nickel	7.9
Zinc	39.3

SB-04 0-2 20221003: 10/3/2022 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	4
Barium	78.8
Beryllium	0.63
Cadmium	0.43 J
Chromium, Total	19.1
Copper	34.8
Lead	**80**
Manganese	689
Mercury	**0.59**
Nickel	20.7
Selenium	0.35 J
Zinc	107

SB-04 0-2 20241211: 12/11/2024 (0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.4
Barium	40.5
Beryllium	0.25 J
Chromium, Total	12.1
Copper	18.2
Lead	57.4
Manganese	203
Mercury	0.062
Nickel	10.9
Zinc	50

SB-04 2-4 20241211: 12/11/2024 (2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	4.5
Barium	117
Beryllium	0.31 J
Cadmium	0.55 J
Chromium, Total	16.2
Copper	50.5
Copper	**50.5**
Lead	**237**
Manganese	299
Mercury	0.084
Nickel	16.9
Selenium	0.27 J
Silver	0.13 J
Zinc	**173**

SB-04 32-34 20221003: 10/3/2022 (32-34 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.3
Barium	35.4
Beryllium	0.26 J
Chromium, Total	19.3
Copper	18.3
Lead	6.1
Manganese	268
Nickel	10.2
Zinc	27.3

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits.
L: Sample result is estimated and biased low.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024 (0-2 FT BGS) CONCENTRATION

VOCs (mg/kg)
Tetrachloroethylene (PCE) 0.0057

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

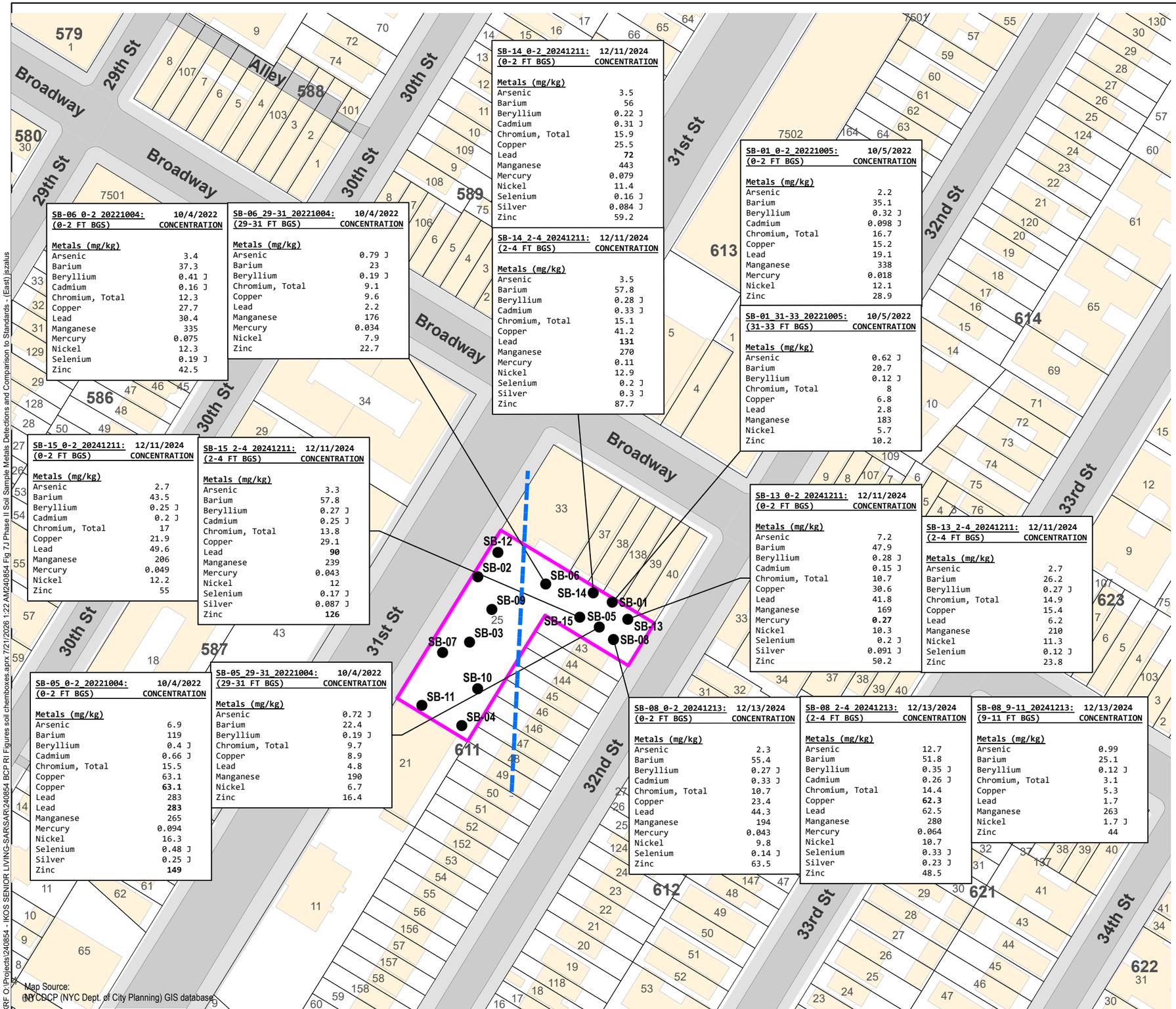
PHASE II SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS (WEST)

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
6I

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 12:28 AM240854 Fig 7I Phase II Soil Sample Metals Detections and Comparison to Standards - (West).jszalus



SB-14_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.5
Barium	56
Beryllium	0.22 J
Cadmium	0.31 J
Chromium, Total	15.9
Copper	25.5
Lead	**72**
Manganese	443
Mercury	0.079
Nickel	11.4
Selenium	0.16 J
Silver	0.084 J
Zinc	59.2

SB-06_0-2_20221004: 10/4/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.4
Barium	37.3
Beryllium	0.41 J
Cadmium	0.16 J
Chromium, Total	12.3
Copper	27.7
Lead	30.4
Manganese	335
Mercury	0.075
Nickel	12.3
Selenium	0.19 J
Zinc	42.5

SB-06_29-31_20221004: 10/4/2022
(29-31 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.79 J
Barium	23
Beryllium	0.19 J
Chromium, Total	9.1
Copper	9.6
Lead	2.2
Manganese	176
Mercury	0.034
Nickel	7.9
Zinc	22.7

SB-14_2-4_20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.5
Barium	57.8
Beryllium	0.28 J
Cadmium	0.33 J
Chromium, Total	15.1
Copper	41.2
Lead	**131**
Manganese	270
Mercury	0.11
Nickel	12.9
Selenium	0.2 J
Silver	0.3 J
Zinc	87.7

SB-01_0-2_20221005: 10/5/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.2
Barium	35.1
Beryllium	0.32 J
Cadmium	0.098 J
Chromium, Total	16.7
Copper	15.2
Lead	19.1
Manganese	338
Mercury	0.018
Nickel	12.1
Zinc	28.9

SB-01_31-33_20221005: 10/5/2022
(31-33 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.62 J
Barium	20.7
Beryllium	0.12 J
Chromium, Total	8
Copper	6.8
Lead	2.8
Manganese	183
Nickel	5.7
Zinc	10.2

SB-15_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.7
Barium	43.5
Beryllium	0.25 J
Cadmium	0.2 J
Chromium, Total	17
Copper	21.9
Lead	49.6
Manganese	206
Mercury	0.049
Nickel	12.2
Zinc	55

SB-15_2-4_20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.3
Barium	57.8
Beryllium	0.27 J
Cadmium	0.25 J
Chromium, Total	13.8
Copper	29.1
Lead	**90**
Manganese	239
Mercury	0.043
Nickel	12
Selenium	0.17 J
Silver	0.087 J
Zinc	**126**

SB-13_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	7.2
Barium	47.9
Beryllium	0.28 J
Cadmium	0.15 J
Chromium, Total	10.7
Copper	30.6
Lead	41.8
Manganese	169
Mercury	**0.27**
Nickel	10.3
Selenium	0.2 J
Silver	0.091 J
Zinc	50.2

SB-13_2-4_20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.7
Barium	26.2
Beryllium	0.27 J
Chromium, Total	14.9
Copper	15.4
Lead	6.2
Manganese	210
Nickel	11.3
Selenium	0.12 J
Zinc	23.8

SB-05_0-2_20221004: 10/4/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	6.9
Barium	119
Beryllium	0.4 J
Cadmium	0.66 J
Chromium, Total	15.5
Copper	63.1
Copper	**63.1**
Lead	283
Lead	**283**
Manganese	265
Mercury	0.094
Nickel	16.3
Selenium	0.48 J
Silver	0.25 J
Zinc	**149**

SB-05_29-31_20221004: 10/4/2022
(29-31 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.72 J
Barium	22.4
Beryllium	0.19 J
Chromium, Total	9.7
Copper	8.9
Lead	4.8
Manganese	190
Nickel	6.7
Zinc	16.4

SB-08_0-2_20241213: 12/13/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.3
Barium	55.4
Beryllium	0.27 J
Cadmium	0.33 J
Chromium, Total	10.7
Copper	23.4
Lead	44.3
Manganese	194
Mercury	0.043
Nickel	9.8
Selenium	0.14 J
Zinc	63.5

SB-08_2-4_20241213: 12/13/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	12.7
Barium	51.8
Beryllium	0.35 J
Cadmium	0.26 J
Chromium, Total	14.4
Copper	**62.3**
Lead	62.5
Manganese	280
Mercury	0.064
Nickel	10.7
Selenium	0.33 J
Silver	0.23 J
Zinc	48.5

SB-08_9-11_20241213: 12/13/2024
(9-11 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.99
Barium	25.1
Beryllium	0.12 J
Chromium, Total	3.1
Copper	5.3
Lead	1.7
Manganese	263
Nickel	1.7 J
Zinc	44

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION
- EAST/WEST HALF OF SITE

N

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	**109**

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS (EAST)

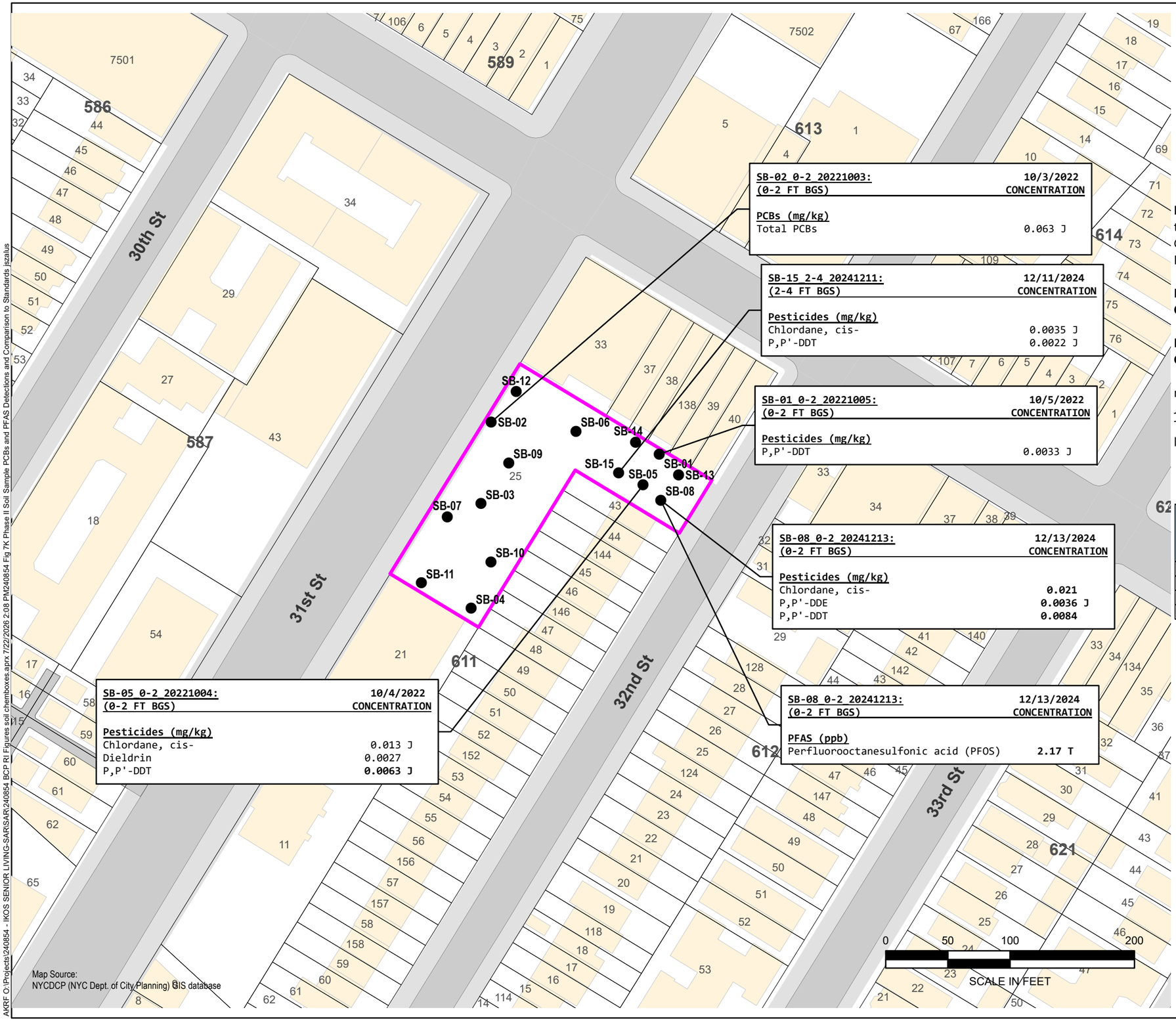
32-11 31st Street
Queens, New York

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
6J

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 1:22 AM 240854 Fig 7J Phase II Soil Sample Metals Detections and Comparison to Standards - (East) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING

N

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Pesticides		
Chlordane, cis-	0.65	0.014
P,P'-DDE	3.4	0.0033
P,P'-DDT	3.8	0.0033

	UUGV ppb	RRGV ppb
PFAS		
Perfluorooctanesulfonic acid (PFOS)	0.88	44

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE PCBS AND PFAS DETECTIONS AND COMPARISON TO STANDARDS

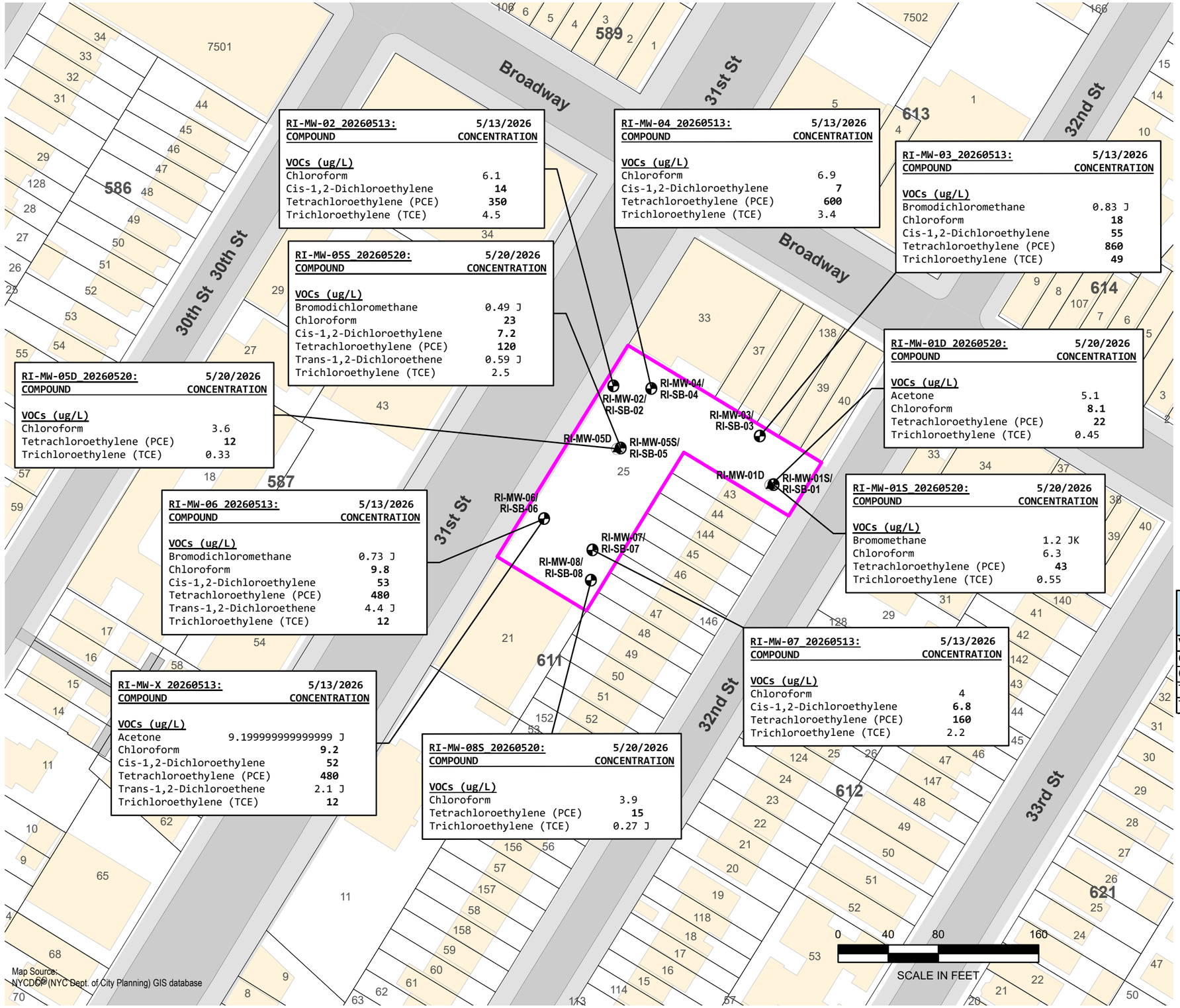
32-11 31st Street
Queens, New York

DATE
7/22/2026

PROJECT NO.
240854

FIGURE
6K

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854_BCP RI Figures soil chemboxes.aprx 7/22/2026 2:08 PM240854 Fig 7K Phase II Soil Sample PCBs and PFAS Detections and Comparison to Standards iszalus



RI-MW-02_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	6.1
Cis-1,2-Dichloroethylene	**14**
Tetrachloroethylene (PCE)	**350**
Trichloroethylene (TCE)	4.5

RI-MW-04_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	6.9
Cis-1,2-Dichloroethylene	**7**
Tetrachloroethylene (PCE)	**600**
Trichloroethylene (TCE)	3.4

RI-MW-03_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.83 J
Chloroform	**18**
Cis-1,2-Dichloroethylene	**55**
Tetrachloroethylene (PCE)	**860**
Trichloroethylene (TCE)	**49**

RI-MW-05S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.49 J
Chloroform	**23**
Cis-1,2-Dichloroethylene	**7.2**
Tetrachloroethylene (PCE)	**120**
Trans-1,2-Dichloroethene	0.59 J
Trichloroethylene (TCE)	2.5

RI-MW-05D_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	3.6
Tetrachloroethylene (PCE)	**12**
Trichloroethylene (TCE)	0.33

RI-MW-01D_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Acetone	5.1
Chloroform	**8.1**
Tetrachloroethylene (PCE)	**22**
Trichloroethylene (TCE)	0.45

RI-MW-01S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromomethane	1.2 JK
Chloroform	6.3
Tetrachloroethylene (PCE)	**43**
Trichloroethylene (TCE)	0.55

RI-MW-06_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.73 J
Chloroform	**9.8**
Cis-1,2-Dichloroethylene	**53**
Tetrachloroethylene (PCE)	**480**
Trans-1,2-Dichloroethene	4.4 J
Trichloroethylene (TCE)	**12**

RI-MW-07_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	4
Cis-1,2-Dichloroethylene	**6.8**
Tetrachloroethylene (PCE)	**160**
Trichloroethylene (TCE)	2.2

RI-MW-X_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Acetone	9.199999999999999 J
Chloroform	**9.2**
Cis-1,2-Dichloroethylene	**52**
Tetrachloroethylene (PCE)	**480**
Trans-1,2-Dichloroethene	2.1 J
Trichloroethylene (TCE)	**12**

RI-MW-08S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	3.9
Tetrachloroethylene (PCE)	**15**
Trichloroethylene (TCE)	0.27 J

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- RI SOIL BORING/MONITORING WELL
- RI MONITORING WELL

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.
K: Reported concentration value is proportional to dilution factor and may be exaggerated..

	NYSDEC AWQSGVs (ug/l)
VOCs	
Chloroform	7
Cis-1,2-Dichloroethylene	5
Tetrachloroethylene (PCE)	5
Trichloroethylene (TCE)	5

Sample ID — Sample Date

RI-MW-01S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromomethane	1.2 JK
Chloroform	6.3

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

RI GROUNDWATER SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS

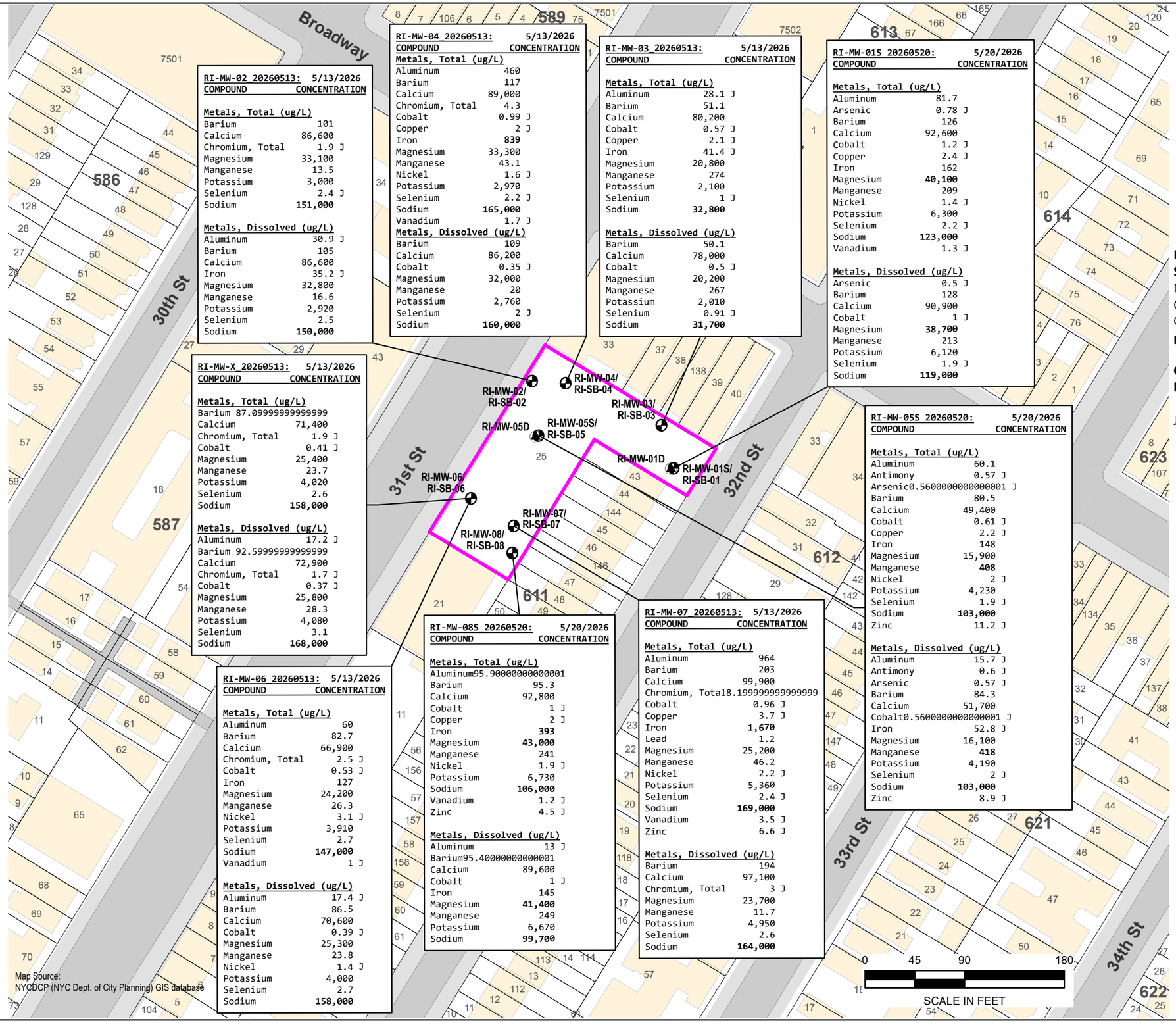
32-11 31st Street
Queens, New York

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
7A

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 9:45 AM240854 Fig 8A RI Groundwater Sample VOC Detections and Comparison to Standards jszalus



RI-MW-02 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Barium	101
Calcium	86,600
Chromium, Total	1.9 J
Magnesium	33,100
Manganese	13.5
Potassium	3,000
Selenium	2.4 J
Sodium	**151,000**
Metals, Dissolved (ug/L)	
Aluminum	30.9 J
Barium	105
Calcium	86,600
Iron	35.2 J
Magnesium	32,800
Manganese	16.6
Potassium	2,920
Selenium	2.5
Sodium	**150,000**

RI-MW-04 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	460
Barium	117
Calcium	89,000
Chromium, Total	4.3
Cobalt	0.99 J
Copper	2 J
Iron	**839**
Magnesium	33,300
Manganese	43.1
Nickel	1.6 J
Potassium	2,970
Selenium	2.2 J
Sodium	**165,000**
Vanadium	1.7 J
Metals, Dissolved (ug/L)	
Barium	109
Calcium	86,200
Cobalt	0.35 J
Magnesium	32,000
Manganese	20
Potassium	2,760
Selenium	2 J
Sodium	**160,000**

RI-MW-03 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	28.1 J
Barium	51.1
Calcium	80,200
Cobalt	0.57 J
Copper	2.1 J
Iron	41.4 J
Magnesium	20,800
Manganese	274
Potassium	2,100
Selenium	1 J
Sodium	**32,800**
Metals, Dissolved (ug/L)	
Barium	50.1
Calcium	78,000
Cobalt	0.5 J
Magnesium	20,200
Manganese	267
Potassium	2,010
Selenium	0.91 J
Sodium	**31,700**

RI-MW-01S 20260520: 5/20/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	81.7
Arsenic	0.78 J
Barium	126
Calcium	92,600
Cobalt	1.2 J
Copper	2.4 J
Iron	162
Magnesium	**40,100**
Manganese	209
Nickel	1.4 J
Potassium	6,300
Selenium	2.2 J
Sodium	**123,000**
Vanadium	1.3 J
Metals, Dissolved (ug/L)	
Arsenic	0.5 J
Barium	128
Calcium	90,900
Cobalt	1 J
Magnesium	**38,700**
Manganese	213
Potassium	6,120
Selenium	1.9 J
Sodium	**119,000**

RI-MW-X 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Barium 87.09999999999999	
Calcium	71,400
Chromium, Total	1.9 J
Cobalt	0.41 J
Magnesium	25,400
Manganese	23.7
Potassium	4,020
Selenium	2.6
Sodium	**158,000**
Metals, Dissolved (ug/L)	
Aluminum	17.2 J
Barium 92.59999999999999	
Calcium	72,900
Chromium, Total	1.7 J
Cobalt	0.37 J
Magnesium	25,800
Manganese	28.3
Potassium	4,080
Selenium	3.1
Sodium	**168,000**

RI-MW-05S 20260520: 5/20/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	60.1
Antimony	0.57 J
Arsenic0.5600000000000001	J
Barium	80.5
Calcium	49,400
Cobalt	0.61 J
Copper	2.2 J
Iron	148
Magnesium	15,900
Manganese	**408**
Nickel	2 J
Potassium	4,230
Selenium	1.9 J
Sodium	**103,000**
Zinc	11.2 J
Metals, Dissolved (ug/L)	
Aluminum	15.7 J
Antimony	0.6 J
Arsenic	0.57 J
Barium	84.3
Calcium	51,700
Cobalt0.5600000000000001	J
Iron	52.8 J
Magnesium	16,100
Manganese	**418**
Potassium	4,190
Selenium	2 J
Sodium	**103,000**
Zinc	8.9 J

RI-MW-06 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	60
Barium	82.7
Calcium	66,900
Chromium, Total	2.5 J
Cobalt	0.53 J
Iron	127
Magnesium	24,200
Manganese	26.3
Nickel	3.1 J
Potassium	3,910
Selenium	2.7
Sodium	**147,000**
Vanadium	1 J
Metals, Dissolved (ug/L)	
Aluminum	17.4 J
Barium	86.5
Calcium	70,600
Cobalt	0.39 J
Magnesium	25,300
Manganese	23.8
Nickel	1.4 J
Potassium	4,000
Selenium	2.7
Sodium	**158,000**

RI-MW-08S 20260520: 5/20/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum95.90000000000001	
Barium	95.3
Calcium	92,800
Cobalt	1 J
Copper	2 J
Iron	**393**
Magnesium	**43,000**
Manganese	241
Nickel	1.9 J
Potassium	6,730
Sodium	**106,000**
Vanadium	1.2 J
Zinc	4.5 J
Metals, Dissolved (ug/L)	
Aluminum	13 J
Barium95.40000000000001	
Calcium	89,600
Cobalt	1 J
Iron	145
Magnesium	**41,400**
Manganese	249
Potassium	6,670
Sodium	**99,700**

RI-MW-07 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	964
Barium	203
Calcium	99,900
Chromium, Total	8.199999999999999
Cobalt	0.96 J
Copper	3.7 J
Iron	**1,670**
Lead	1.2
Magnesium	25,200
Manganese	46.2
Nickel	2.2 J
Potassium	5,360
Selenium	2.4 J
Sodium	**169,000**
Vanadium	3.5 J
Zinc	6.6 J
Metals, Dissolved (ug/L)	
Barium	194
Calcium	97,100
Chromium, Total	3 J
Magnesium	23,700
Manganese	11.7
Potassium	4,950
Selenium	2.6
Sodium	**164,000**

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- RI SOIL BORING/MONITORING WELL
- RI MONITORING WELL

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs (ug/l)
Metals, Total	
Iron	300
Magnesium	35,000
Manganese	300
Sodium	20,000

Sample ID — Sample Date

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	6.7
Tetrachloroethylene (PCE)	19

Analyte/Compound — Concentration

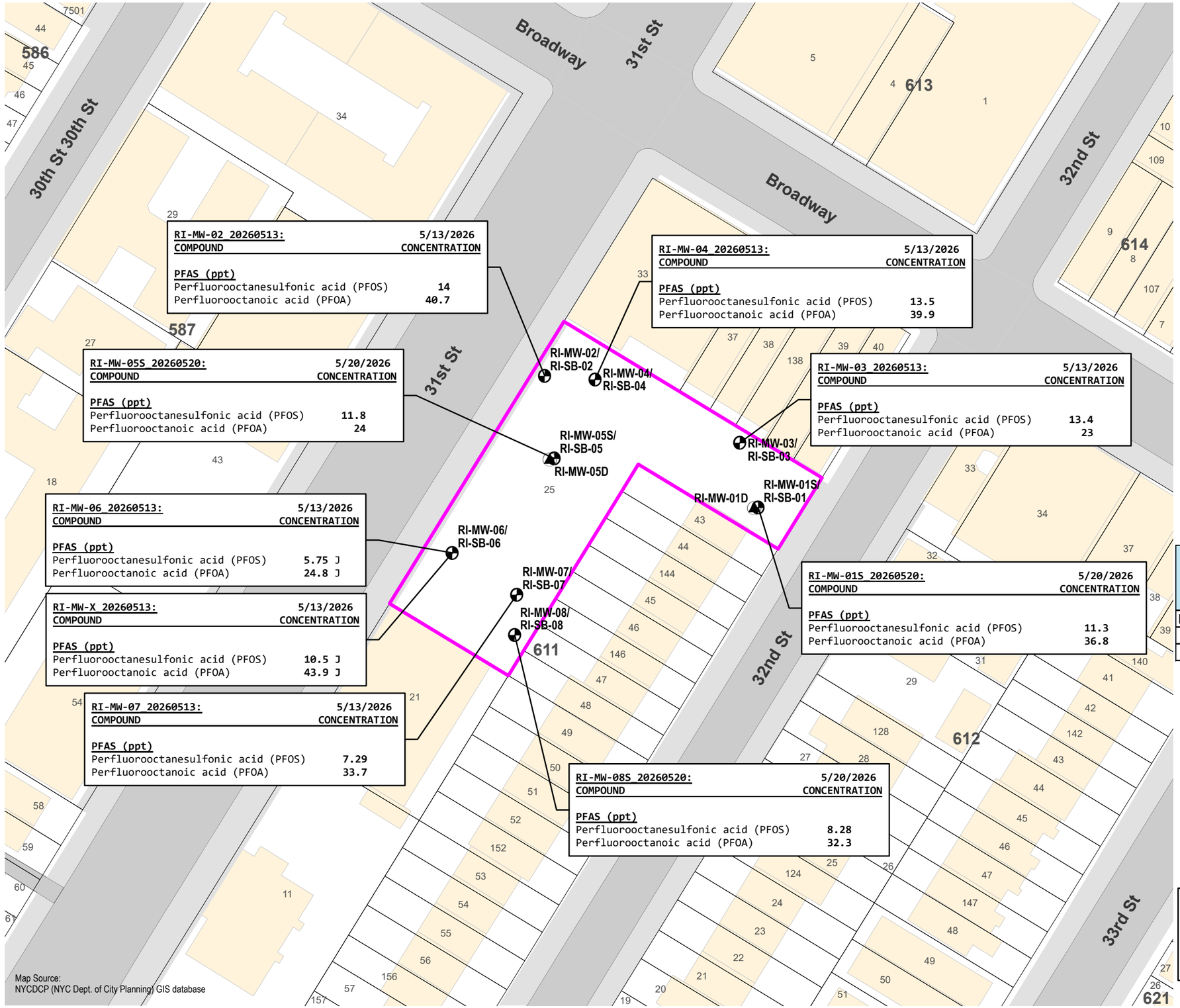
akrf
440 Park Avenue South, New York, NY 10016

RI GROUNDWATER SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 7B

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV, etc.aprx 7/21/2026 9:45 AM240854 Fig 8B RI Groundwater Sample Metals Detections and Comparison to Standards jszalus



LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- SOIL BORING/MONITORING WELL
- MONITORING WELL

N

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	PFAS Groundwater ppt
PFAS	
Perfluorooctanesulfonic acid (PFOS)	2.7
Perfluorooctanoic acid (PFOA)	6.7

0 30 60 120
SCALE IN FEET

Sample ID — Sample Date

RI-MW-08S_20260520:	5/20/2026
COMPOUND	CONCENTRATION
PFAS (ppt)	
Perfluorooctanesulfonic acid (PFOS)	8.28
Perfluorooctanoic acid (PFOA)	32.3

Analyte/Compound — Concentration

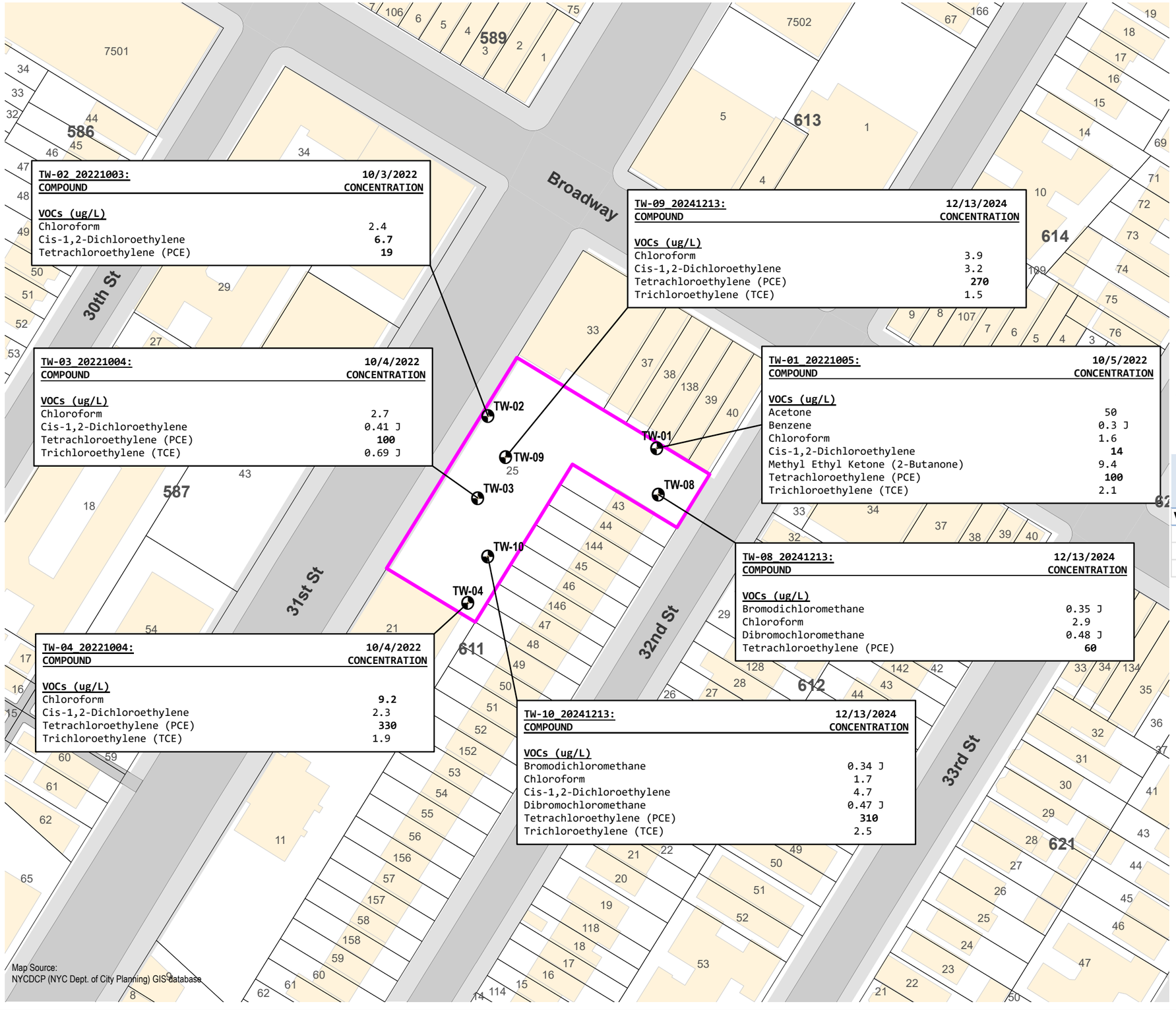
akrf
440 Park Avenue South, New York, NY 10016

RI GROUNDWATER SAMPLE PFAS DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 7C

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc aprx 7/21/2026 9:50 AM240854 Fig 8C RI Groundwater Sample PFAS Detections and Comparison to Standards jszalus



TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	2.4
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**

TW-09 20241213: 12/13/2024

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	3.9
Cis-1,2-Dichloroethylene	3.2
Tetrachloroethylene (PCE)	**270**
Trichloroethylene (TCE)	1.5

TW-03 20221004: 10/4/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	2.7
Cis-1,2-Dichloroethylene	0.41 J
Tetrachloroethylene (PCE)	**100**
Trichloroethylene (TCE)	0.69 J

TW-01 20221005: 10/5/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Acetone	50
Benzene	0.3 J
Chloroform	1.6
Cis-1,2-Dichloroethylene	**14**
Methyl Ethyl Ketone (2-Butanone)	9.4
Tetrachloroethylene (PCE)	**100**
Trichloroethylene (TCE)	2.1

TW-08 20241213: 12/13/2024

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.35 J
Chloroform	2.9
Dibromochloromethane	0.48 J
Tetrachloroethylene (PCE)	**60**

TW-04 20221004: 10/4/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	**9.2**
Cis-1,2-Dichloroethylene	2.3
Tetrachloroethylene (PCE)	**330**
Trichloroethylene (TCE)	1.9

TW-10 20241213: 12/13/2024

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.34 J
Chloroform	1.7
Cis-1,2-Dichloroethylene	4.7
Dibromochloromethane	0.47 J
Tetrachloroethylene (PCE)	**310**
Trichloroethylene (TCE)	2.5

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- GROUNDWATER SAMPLE LOCATION

N

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs µg/l
Volatile Organic Compounds	
Chloroform	7
Cis-1,2-Dichloroethylene	5
Tetrachloroethylene (PCE)	5

Sample ID — Sample Date

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**

Analyte/Compound — Concentration

0 40 80 160
SCALE IN FEET

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

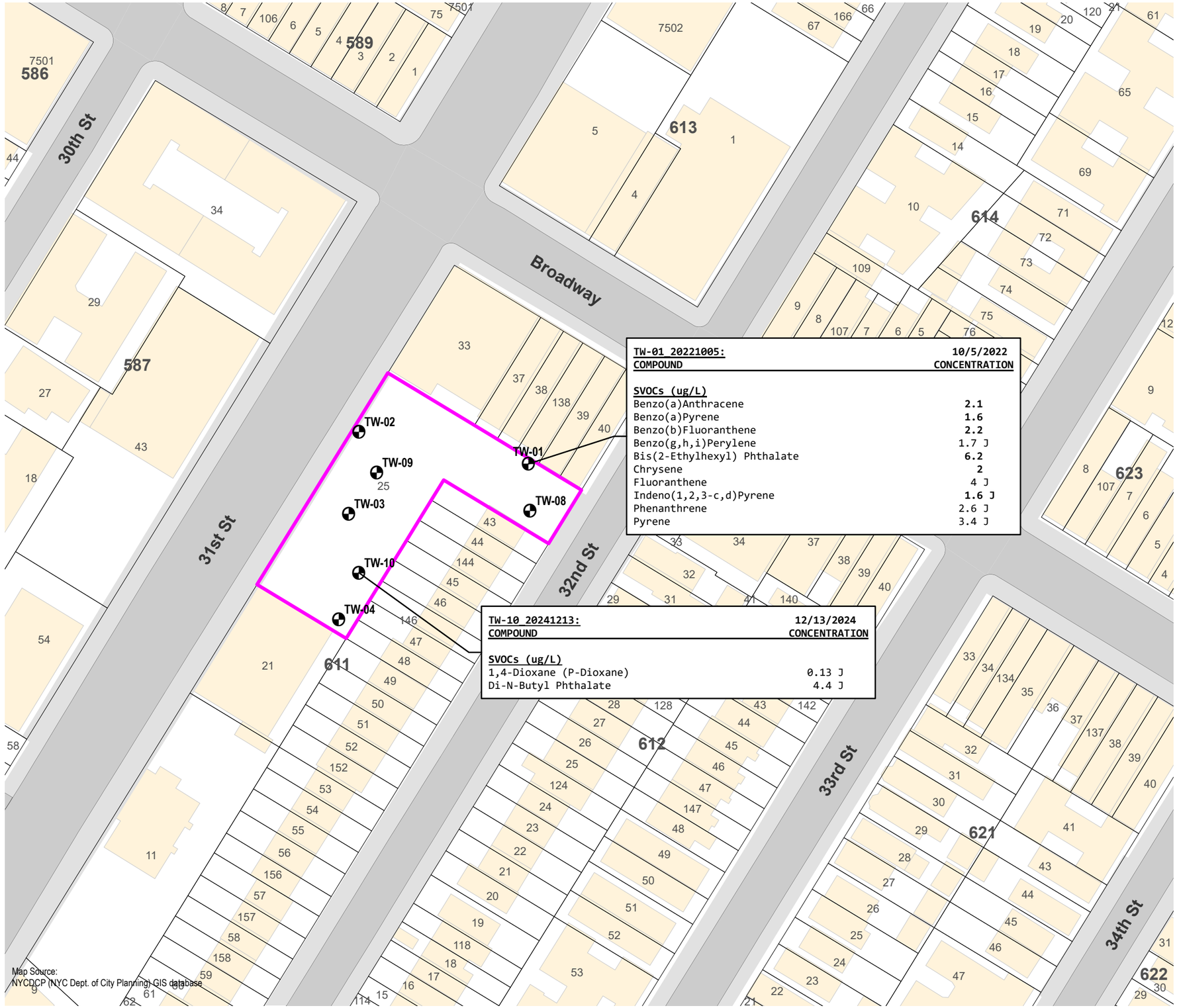
PHASE II GROUNDWATER SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
7D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 9:52 AM\240854 Fig 8D Phase II Groundwater Sample VOC Detections and Comparison to Standards jszalus



TW-01 20221005: — 10/5/2022

COMPOUND	CONCENTRATION
SVOCs (ug/L)	
Benzo(a)Anthracene	**2.1**
Benzo(a)Pyrene	**1.6**
Benzo(b)Fluoranthene	**2.2**
Benzo(g,h,i)Perylene	1.7 J
Bis(2-Ethylhexyl) Phthalate	**6.2**
Chrysene	**2**
Fluoranthene	4 J
Indeno(1,2,3-c,d)Pyrene	**1.6 J**
Phenanthrene	2.6 J
Pyrene	3.4 J

TW-10 20241213: — 12/13/2024

COMPOUND	CONCENTRATION
SVOCs (ug/L)	
1,4-Dioxane (P-Dioxane)	0.13 J
Di-N-Butyl Phthalate	4.4 J

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- GROUNDWATER SAMPLE LOCATION

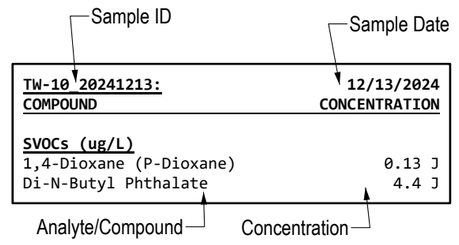
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NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs µg/l
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.002
Benzo(a)Pyrene	0
Benzo(b)Fluoranthene	0.002
Bis(2-Ethylhexyl) Phthalate	5
Chrysene	0.002
Indeno(1,2,3-c,d)Pyrene	0.002



0 40 80 160
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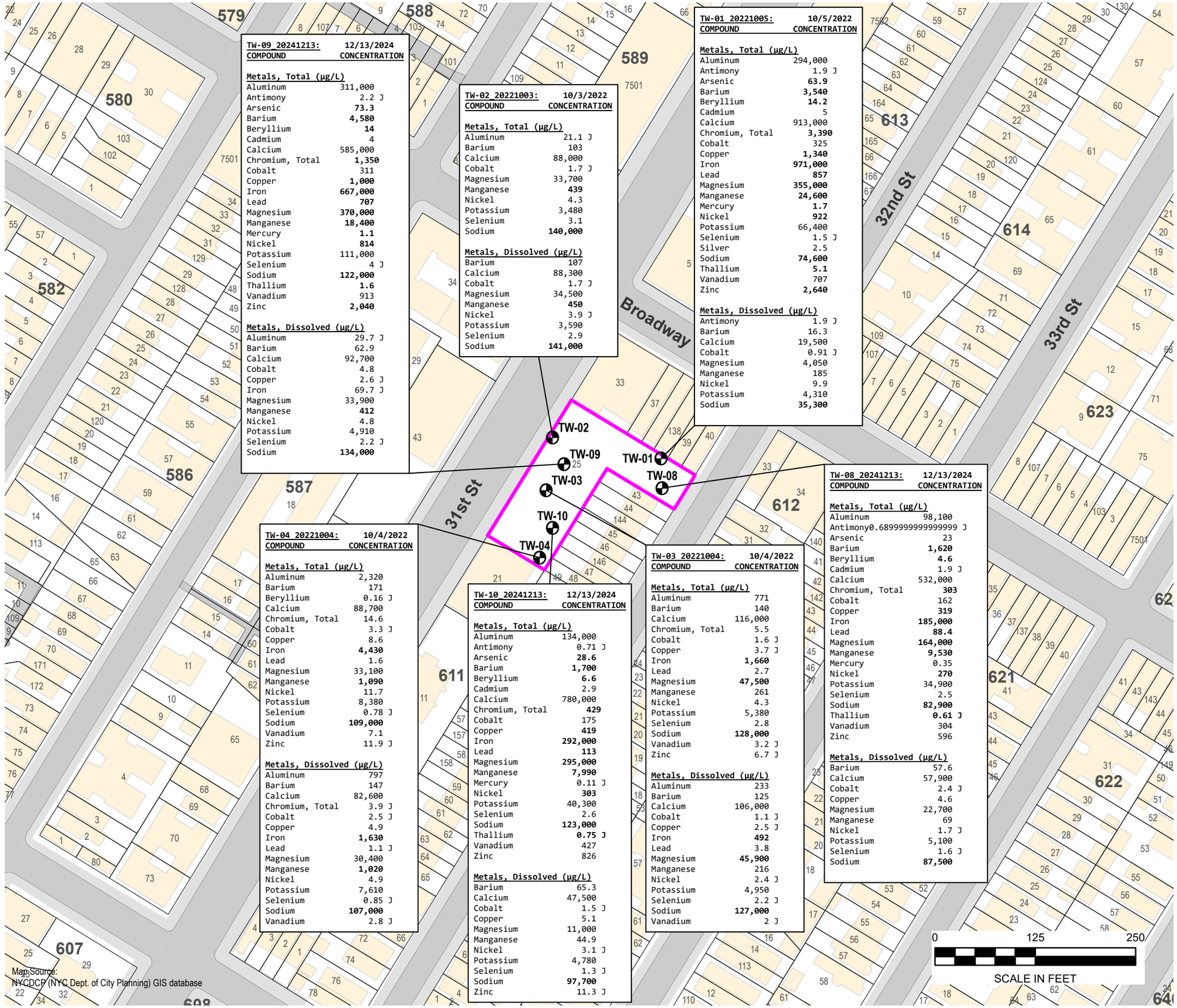
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PHASE II GROUNDWATER SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 7E

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 9:57 AM240854 Fig 8E Phase II Groundwater Sample SVOC Detections and Comparison to Standards jszalus



LEGEND

- BCP SITE BOUNDARY
- 2389 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDINGS
- GROUNDWATER SAMPLE LOCATION

N

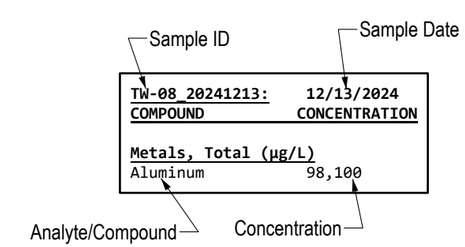
NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC)
Technical and Operational Guidance Series (TOGS) (1.1.1):

µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs µg/l
Metals	
Arsenic	25
Barium	1,000
Beryllium	3
Chromium, Total	50
Copper	200
Iron	300
Lead	25
Magnesium	35,000
Manganese	300
Mercury	0.7
Nickel	100
Sodium	20,000
Thallium	0.5
Zinc	2,000



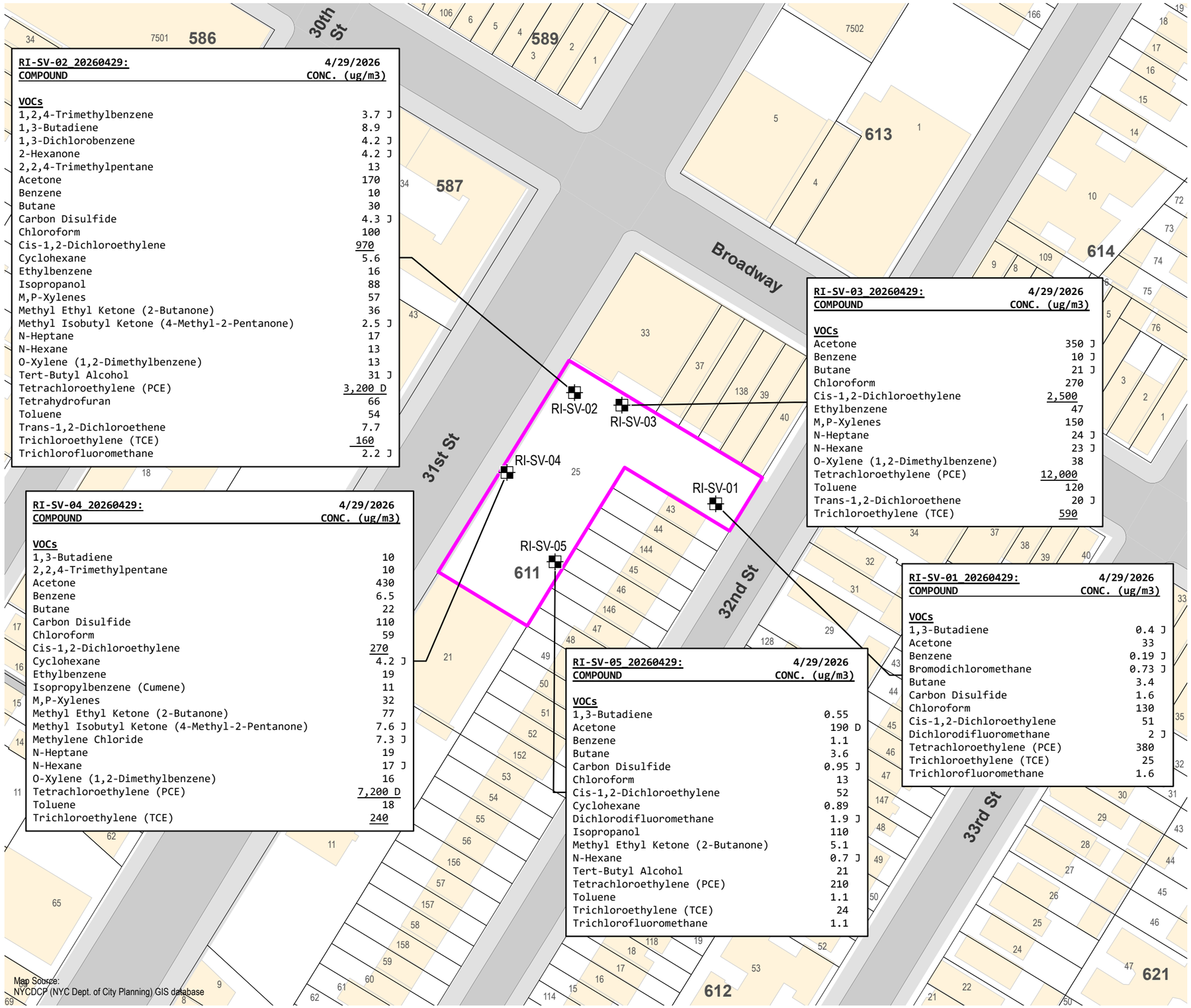
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PHASE II GROUNDWATER SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/7/2026
PROJECT NO. 240854
FIGURE 7F

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures all others.aprx 7/7/2026 1:56 PM\240854 Fig 8F Phase II Groundwater Sample Metals Detections and Comparison to Standards jszalus



RI-SV-02_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,2,4-Trimethylbenzene	3.7 J
1,3-Butadiene	8.9
1,3-Dichlorobenzene	4.2 J
2-Hexanone	4.2 J
2,2,4-Trimethylpentane	13
Acetone	170
Benzene	10
Butane	30
Carbon Disulfide	4.3 J
Chloroform	100
Cis-1,2-Dichloroethylene	**970**
Cyclohexane	5.6
Ethylbenzene	16
Isopropanol	88
M,P-Xylenes	57
Methyl Ethyl Ketone (2-Butanone)	36
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.5 J
N-Heptane	17
N-Hexane	13
O-Xylene (1,2-Dimethylbenzene)	13
Tert-Butyl Alcohol	31 J
Tetrachloroethylene (PCE)	**3,200 D**
Tetrahydrofuran	66
Toluene	54
Trans-1,2-Dichloroethene	7.7
Trichloroethylene (TCE)	**160**
Trichlorofluoromethane	2.2 J

RI-SV-03_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
Acetone	350 J
Benzene	10 J
Butane	21 J
Chloroform	270
Cis-1,2-Dichloroethylene	**2,500**
Ethylbenzene	47
M,P-Xylenes	150
N-Heptane	24 J
N-Hexane	23 J
O-Xylene (1,2-Dimethylbenzene)	38
Tetrachloroethylene (PCE)	**12,000**
Toluene	120
Trans-1,2-Dichloroethene	20 J
Trichloroethylene (TCE)	**590**

RI-SV-04_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,3-Butadiene	10
2,2,4-Trimethylpentane	10
Acetone	430
Benzene	6.5
Butane	22
Carbon Disulfide	110
Chloroform	59
Cis-1,2-Dichloroethylene	**270**
Cyclohexane	4.2 J
Ethylbenzene	19
Isopropylbenzene (Cumene)	11
M,P-Xylenes	32
Methyl Ethyl Ketone (2-Butanone)	77
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	7.6 J
Methylene Chloride	7.3 J
N-Heptane	19
N-Hexane	17 J
O-Xylene (1,2-Dimethylbenzene)	16
Tetrachloroethylene (PCE)	**7,200 D**
Toluene	18
Trichloroethylene (TCE)	**240**

RI-SV-05_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,3-Butadiene	0.55
Acetone	190 D
Benzene	1.1
Butane	3.6
Carbon Disulfide	0.95 J
Chloroform	13
Cis-1,2-Dichloroethylene	52
Cyclohexane	0.89
Dichlorodifluoromethane	1.9 J
Isopropanol	110
Methyl Ethyl Ketone (2-Butanone)	5.1
N-Hexane	0.7 J
Tert-Butyl Alcohol	21
Tetrachloroethylene (PCE)	210
Toluene	1.1
Trichloroethylene (TCE)	24
Trichlorofluoromethane	1.1

RI-SV-01_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,3-Butadiene	0.4 J
Acetone	33
Benzene	0.19 J
Bromodichloromethane	0.73 J
Butane	3.4
Carbon Disulfide	1.6
Chloroform	130
Cis-1,2-Dichloroethylene	51
Dichlorodifluoromethane	2 J
Tetrachloroethylene (PCE)	380
Trichloroethylene (TCE)	25
Trichlorofluoromethane	1.6

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

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LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDINGS
- SOIL VAPOR POINT

SOIL VAPOR

Detections that exceed the NYSDOH Soil Vapor/ Indoor Air Decision Matrix Values that require mitigation regardless of indoor air concentration are **underlined**.

µg/m³- micrograms per cubic meter

J: The reported value is estimated.
D: Analyte concentration obtained from dilution.

Sample ID — Sample Date

SV-11 20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
Chloroform	3.1 J
Cis-1,2-Dichloroethylene	7.9

Analyte/Compound — Concentration

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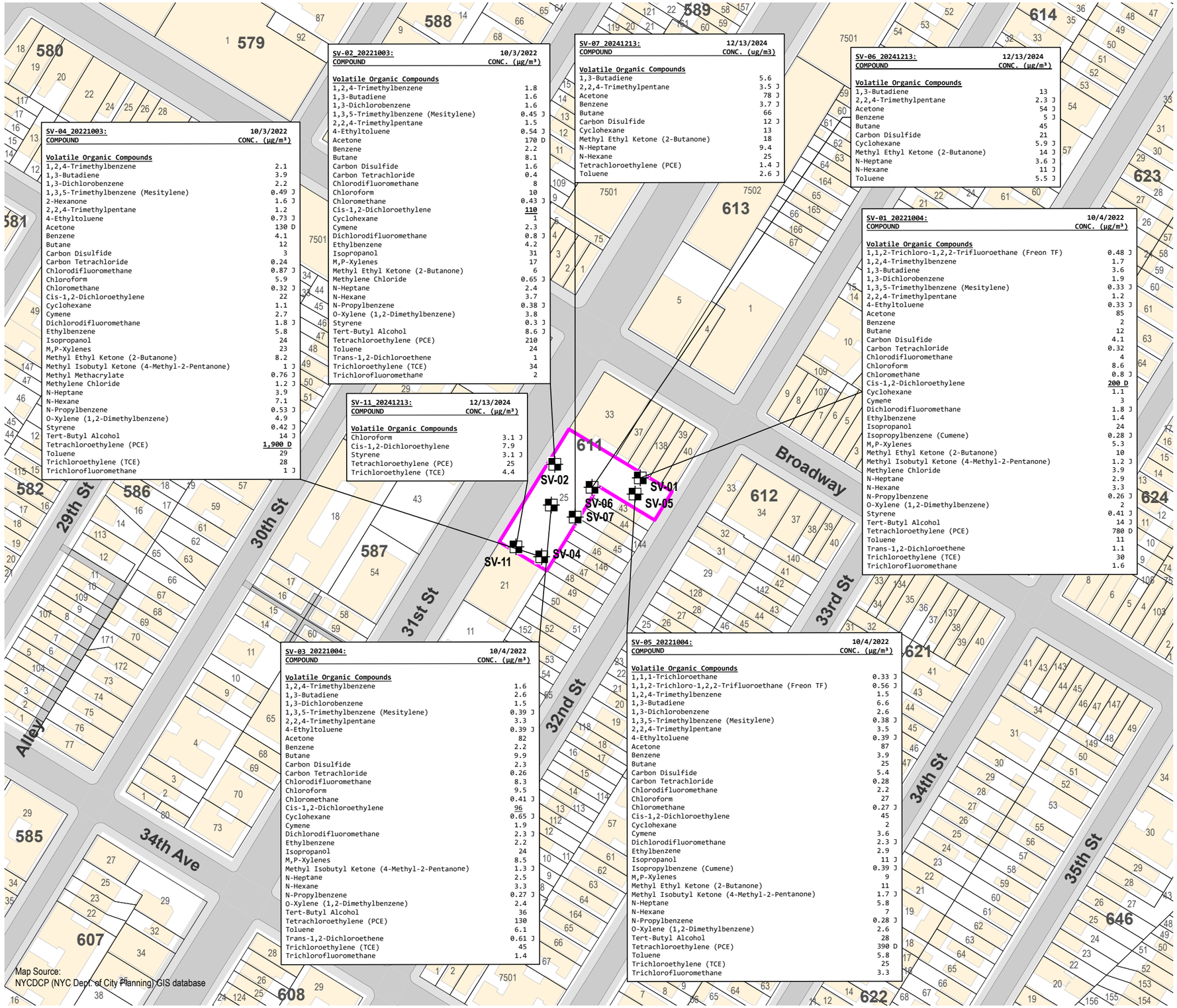
RI SOIL VAPOR DETECTIONS

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
8A

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 10:02 AM240854 Fig 9A RI Soil Vapor Detections jszalus



LEGEND

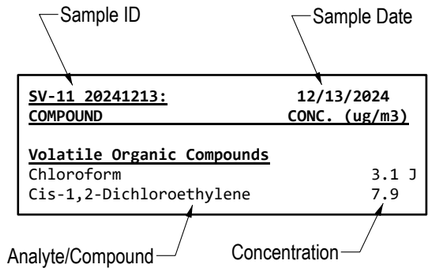
- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDINGS
- SOIL VAPOR SAMPLE LOCATION

SOIL VAPOR

Detections that exceed the NYSDOH Soil Vapor/ Indoor Air Decision Matrix Values that require mitigation regardless of indoor air concentration are **underlined**.

µg/m³- micrograms per cubic meter

J: The reported value is estimated.
D: Analyte concentration obtained from dilution.



0 75 150 300
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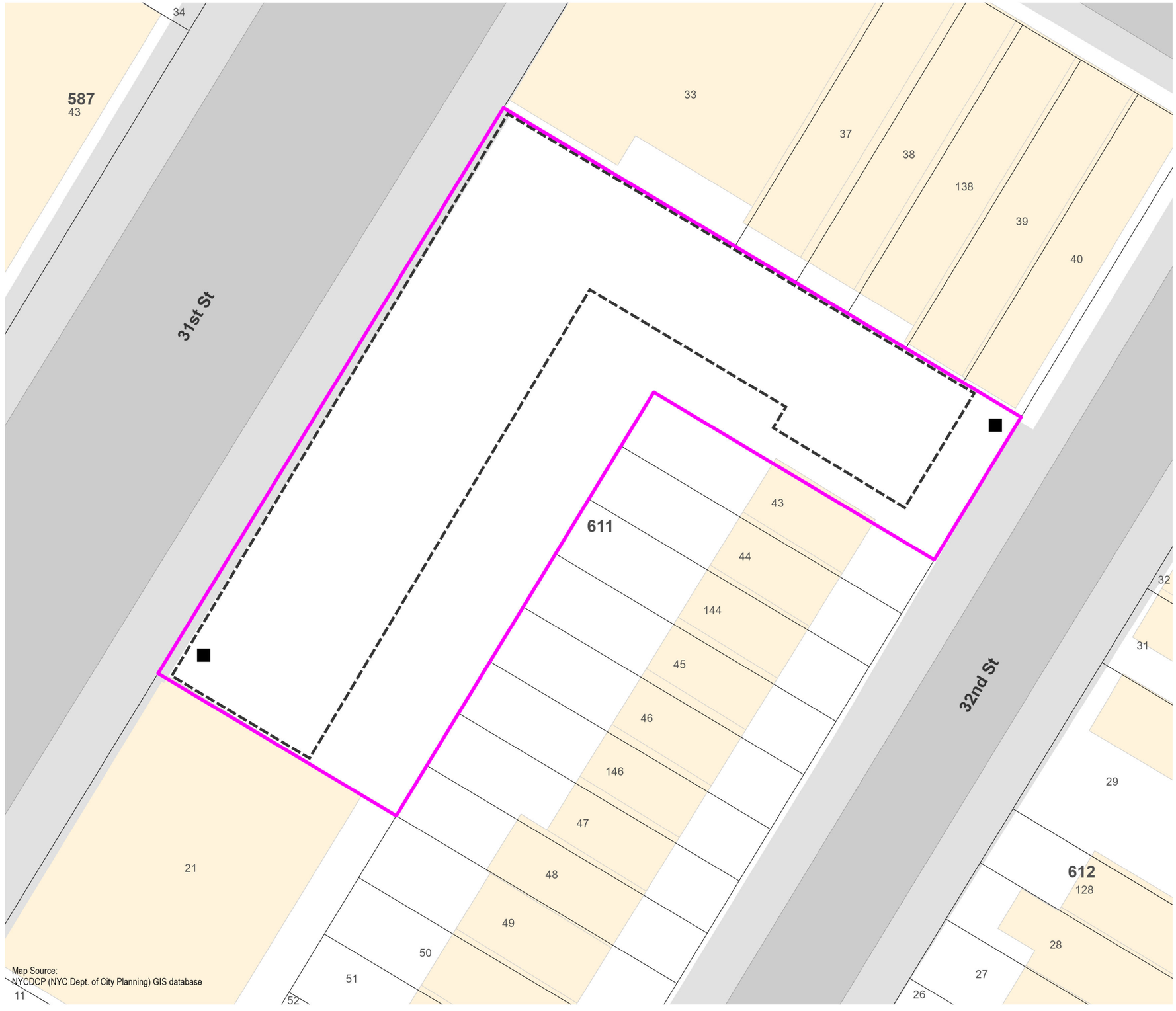
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Queens, New York

PHASE II SOIL VAPOR DETECTIONS

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 8B

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 10:02 AM240854 Fig 9B Phase II Soil Vapor Detections jszalus



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LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- PROPOSED BUILDING
- PROPOSED CAMP LOCATION

0 15 30 60

SCALE IN FEET

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PROPOSED CAMP STATION LOCATIONS

DATE
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FIGURE
9

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc aprx 7/30/2026 9:57 AM240854 Fig 9 Proposed CAMP Station Locations mveilleux



Service Layer Credits:
ESRI World Street Map 2024
City of New York Department of Transportation, April, 2022,
New York City Truck Routes: New York City

LEGEND

- BCP SITE BOUNDARY
- TRUCK ROUTE TO SITE
- TRUCK ROUTE FROM SITE

0 1,000 2,000

SCALE IN FEET

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TRUCK ROUTE MAP

DATE
7/31/2026

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FIGURE
10

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx7/31/2026 8:52 AM240854 Fig 10 Truck Route Mapmvelleux



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LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- PROPOSED BUILDING
- 2022 PHASE II SOIL BORING
- 2022 PHASE II SOIL BORING/ SOIL VAPOR POINT
- 2022 PHASE II SOIL VAPOR POINT
- 2022 PHASE II SOIL BORING/ TEMPORARY WELL
- 2024 PHASE II SOIL BORING
- 2024 PHASE II SOIL BORING/ SOIL VAPOR POINT
- 2024 PHASE II SOIL BORING/ TEMPORARY WELL
- 2024 PHASE II SOIL VAPOR POINT
- RI SOIL BORING
- RI SOIL BORING/MONITORING WELL
- RI MONITORING WELL
- RI SOIL VAPOR POINT
- PROPOSED PDI SOIL VAPOR SAMPLE LOCATION
- PROPOSED PDI SOIL BORING LOCATION

0 15 30 60

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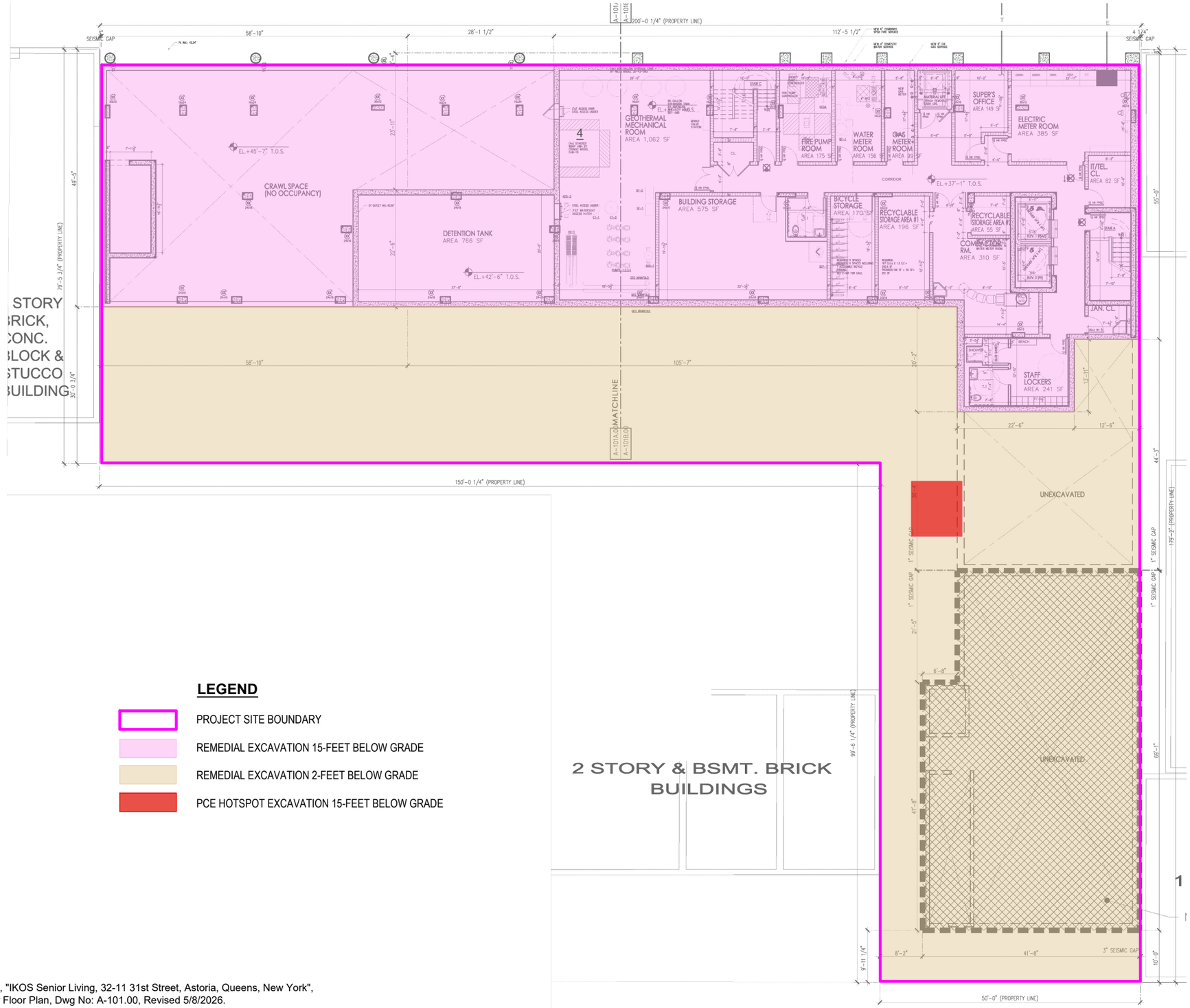
PROPOSED PDI SAMPLING PLAN

DATE
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PROJECT NO.
240854

FIGURE
11

AKRF O:\Projects\240854 - IKCS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc\aprx 7/30/2026 3:00 PM\240854 Fig 11 Proposed PDI Sampling Plan mvelleux



LEGEND

- PROJECT SITE BOUNDARY
- REMEDIAL EXCAVATION 15-FEET BELOW GRADE
- REMEDIAL EXCAVATION 2-FEET BELOW GRADE
- PCE HOTSPOT EXCAVATION 15-FEET BELOW GRADE

Source:
SLCE Architects, "IKOS Senior Living, 32-11 31st Street, Astoria, Queens, New York",
Dwg Title: Cellar Floor Plan, Dwg No: A-101.00, Revised 5/8/2026.

0 10 20 40
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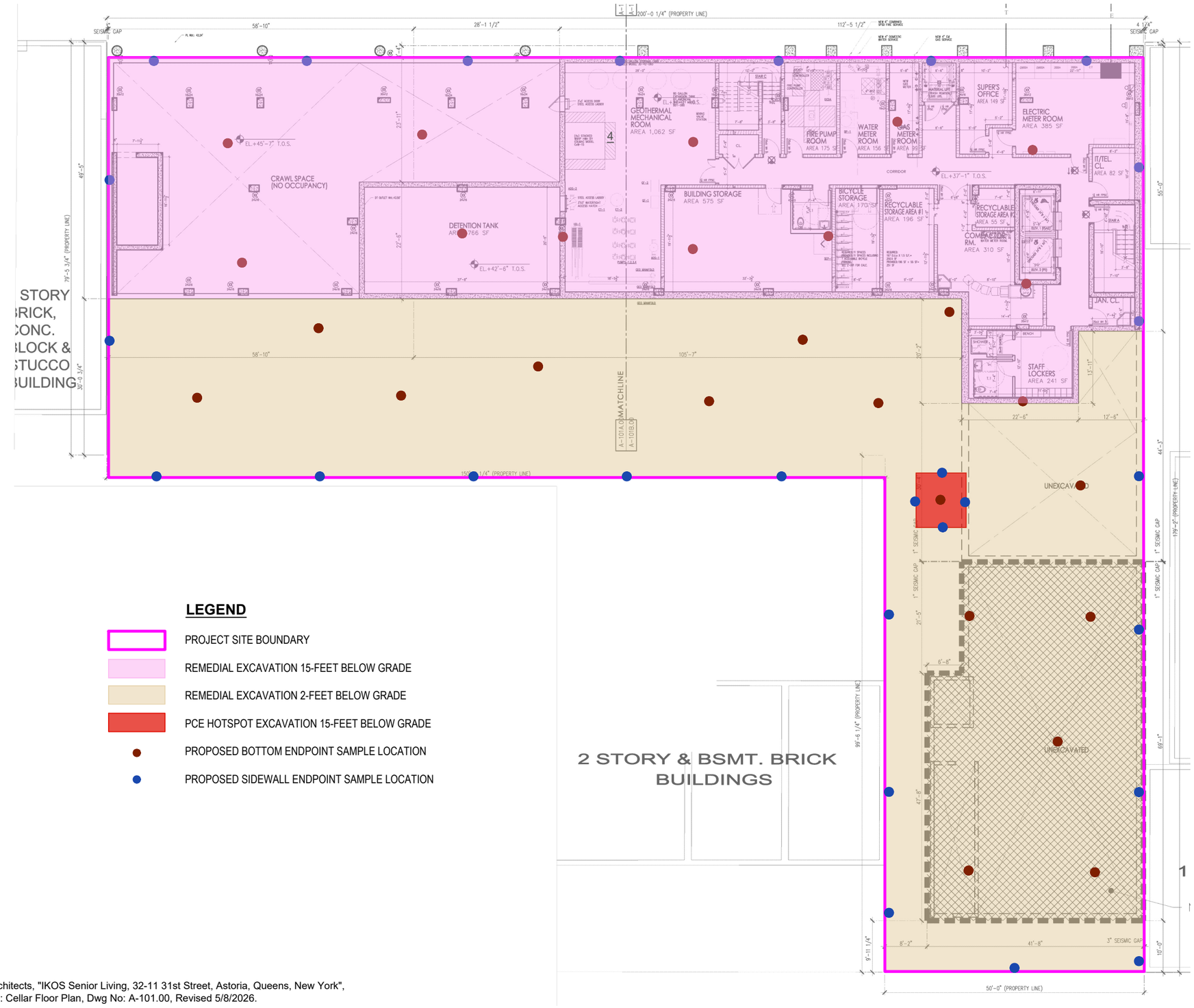
PROPOSED AREAS OF REMEDIAL EXCAVATION

DATE
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FIGURE
12

©2026 AKRF, Inc Q:\Projects\240854 - IKOS SENIOR LIVING-SARI\Technical\Hazmat\CAD\240854 Fig 12 Proposed Areas of Remedial Excavation.dwg last save: mvellieux 7/31/2026 9:37 AM



LEGEND

- PROJECT SITE BOUNDARY
- REMEDIAL EXCAVATION 15-FEET BELOW GRADE
- REMEDIAL EXCAVATION 2-FEET BELOW GRADE
- PCE HOTSPOT EXCAVATION 15-FEET BELOW GRADE
- PROPOSED BOTTOM ENDPOINT SAMPLE LOCATION
- PROPOSED SIDEWALL ENDPOINT SAMPLE LOCATION

Source:
SLCE Architects, "IKOS Senior Living, 32-11 31st Street, Astoria, Queens, New York",
Dwg Title: Cellar Floor Plan, Dwg No: A-101.00, Revised 5/8/2026.

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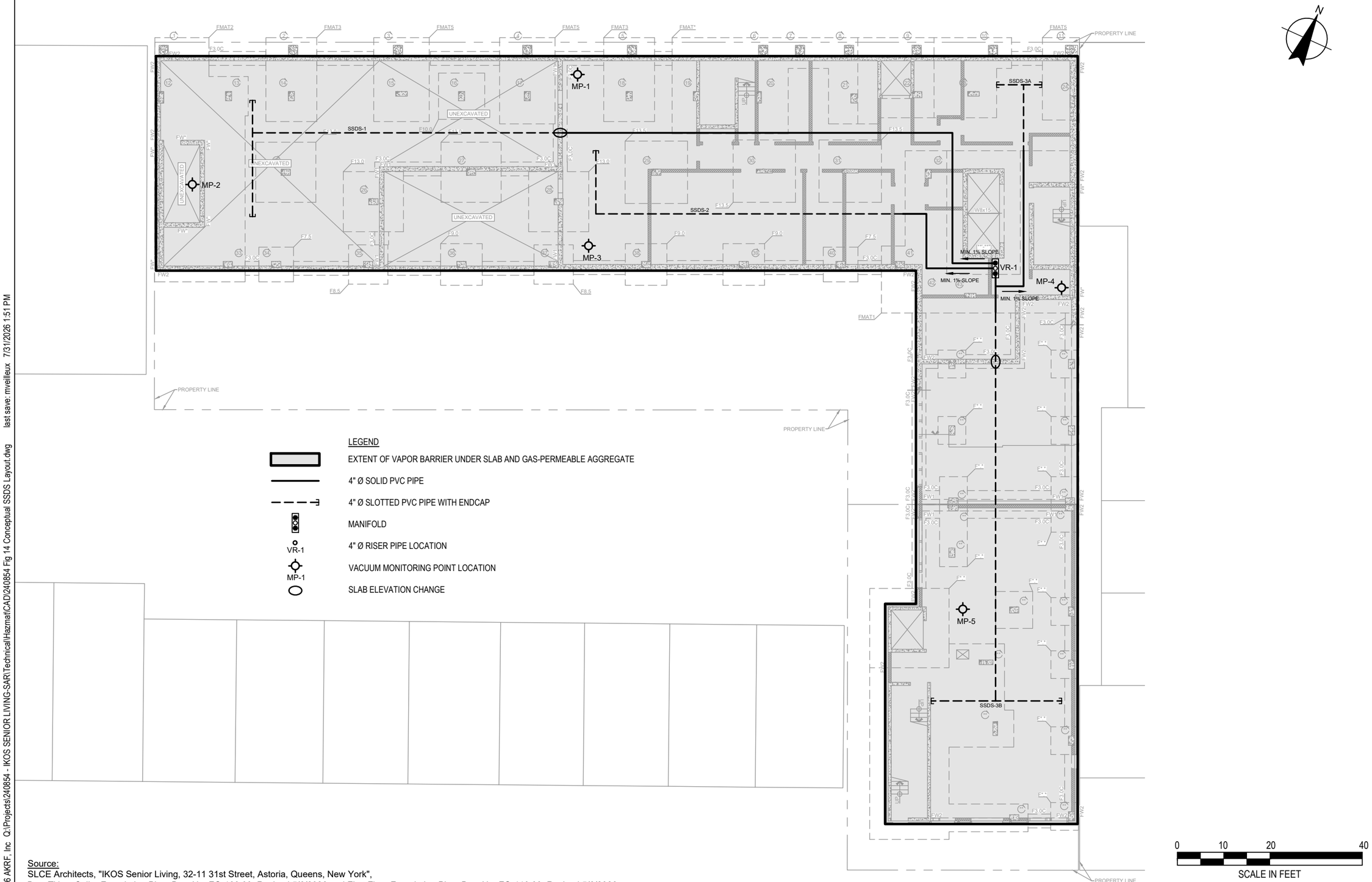
POST-EXCAVATION ENDPOINT SAMPLE LOCATIONS

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FIGURE
13

©2026 AKRF, Inc Q:\Projects\240854 - IKOS SENIOR LIVING-SARI\Technical\Hazmat\CAD\240854 Fig 13 Post Excavation Endpoint Sample Locations.dwg last save: mvelleux 7/31/2026 9:07 AM



Source:
SLCE Architects, "IKOS Senior Living, 32-11 31st Street, Astoria, Queens, New York",
Dwg Titles: Cellar Foundation Plan, Dwg No: FO-100.00, Revised 5/6/2026 and First Floor Foundation Plan, Dwg No: FO-110.00, Revised 5/6/2026.

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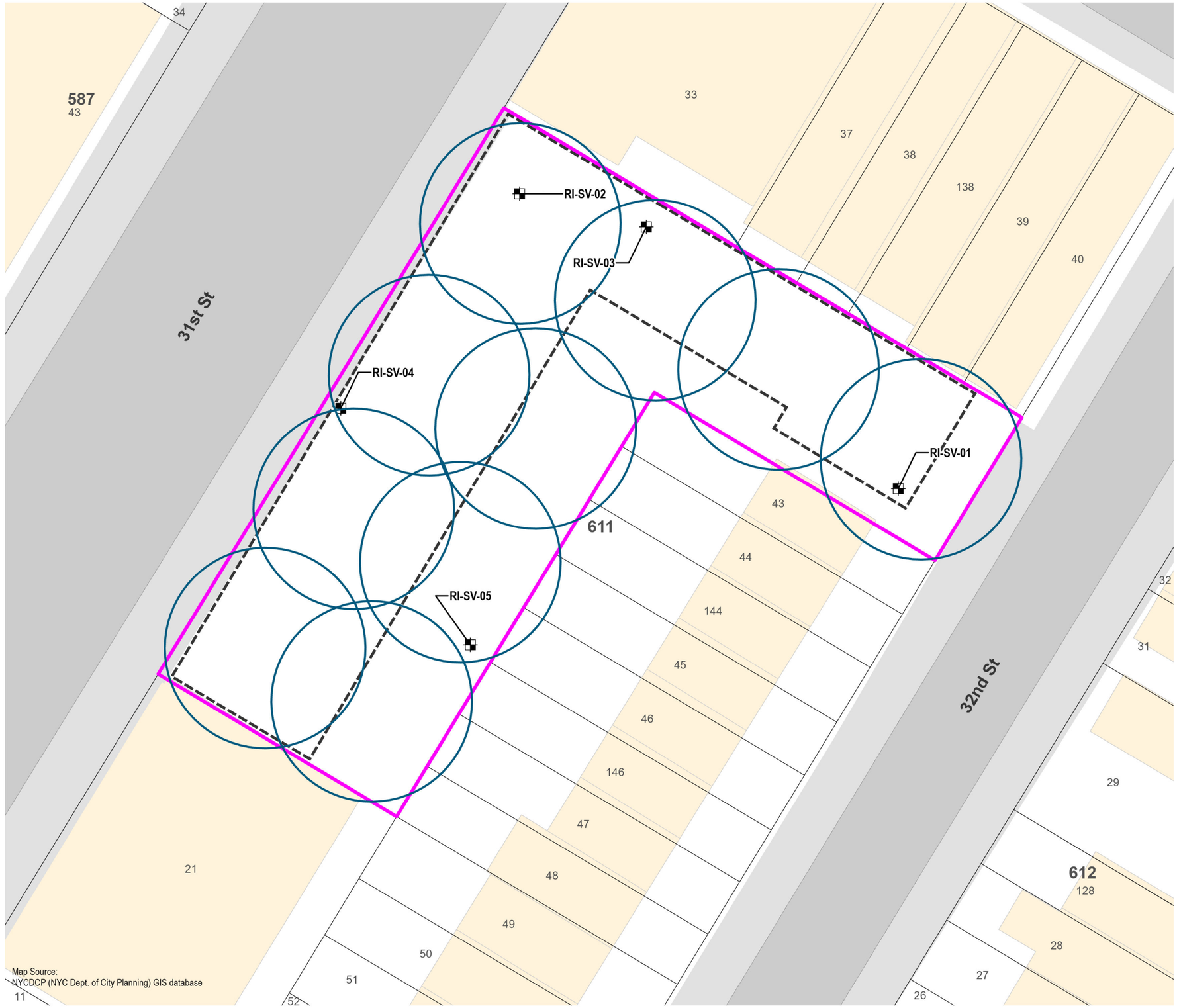
32-11 31st Street
Queens, New York

CONCEPTUAL SSDS LAYOUT

DATE
7/31/2026

PROJECT NO.
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FIGURE
14



N

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- PROPOSED BUILDING
- RI SOIL VAPOR POINT
- APPROXIMATE RADIUS OF INFLUENCE

0 15 30 60

SCALE IN FEET

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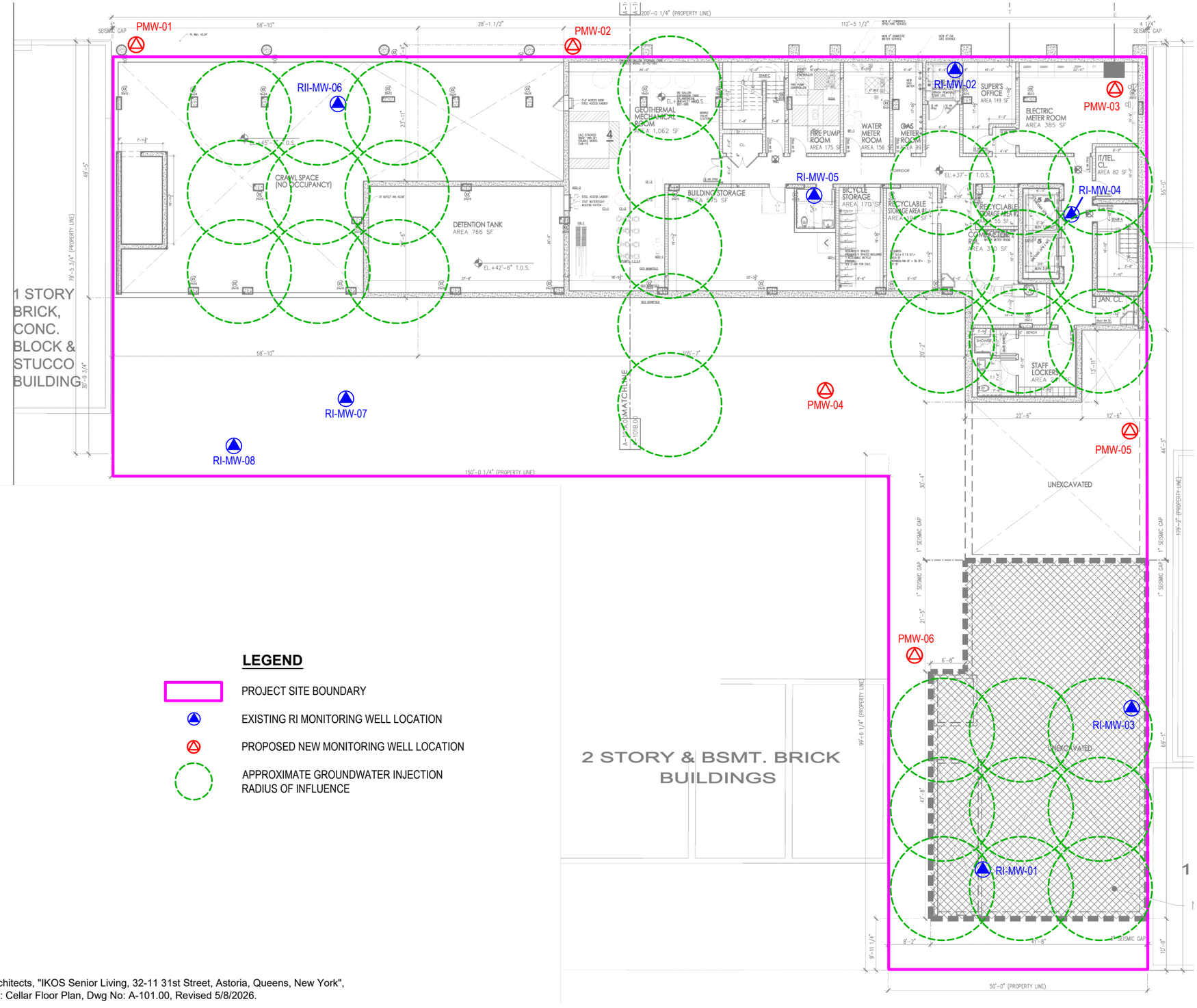
CONCEPTUAL SVES LAYOUT

DATE
7/31/2026

PROJECT NO.
240854

FIGURE
15

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARI\SAR\240854 BCP RI Figures GW SV etc.aprx 7/31/2026 2:34 PM240854 Fig 15 Conceptual SVES Layout mvelleux



LEGEND

- PROJECT SITE BOUNDARY
- EXISTING RI MONITORING WELL LOCATION
- PROPOSED NEW MONITORING WELL LOCATION
- APPROXIMATE GROUNDWATER INJECTION RADIUS OF INFLUENCE

Source:
SLCE Architects, "IKOS Senior Living, 32-11 31st Street, Astoria, Queens, New York",
Dwg Title: Cellar Floor Plan, Dwg No: A-101.00, Revised 5/8/2026.

0 10 20 40
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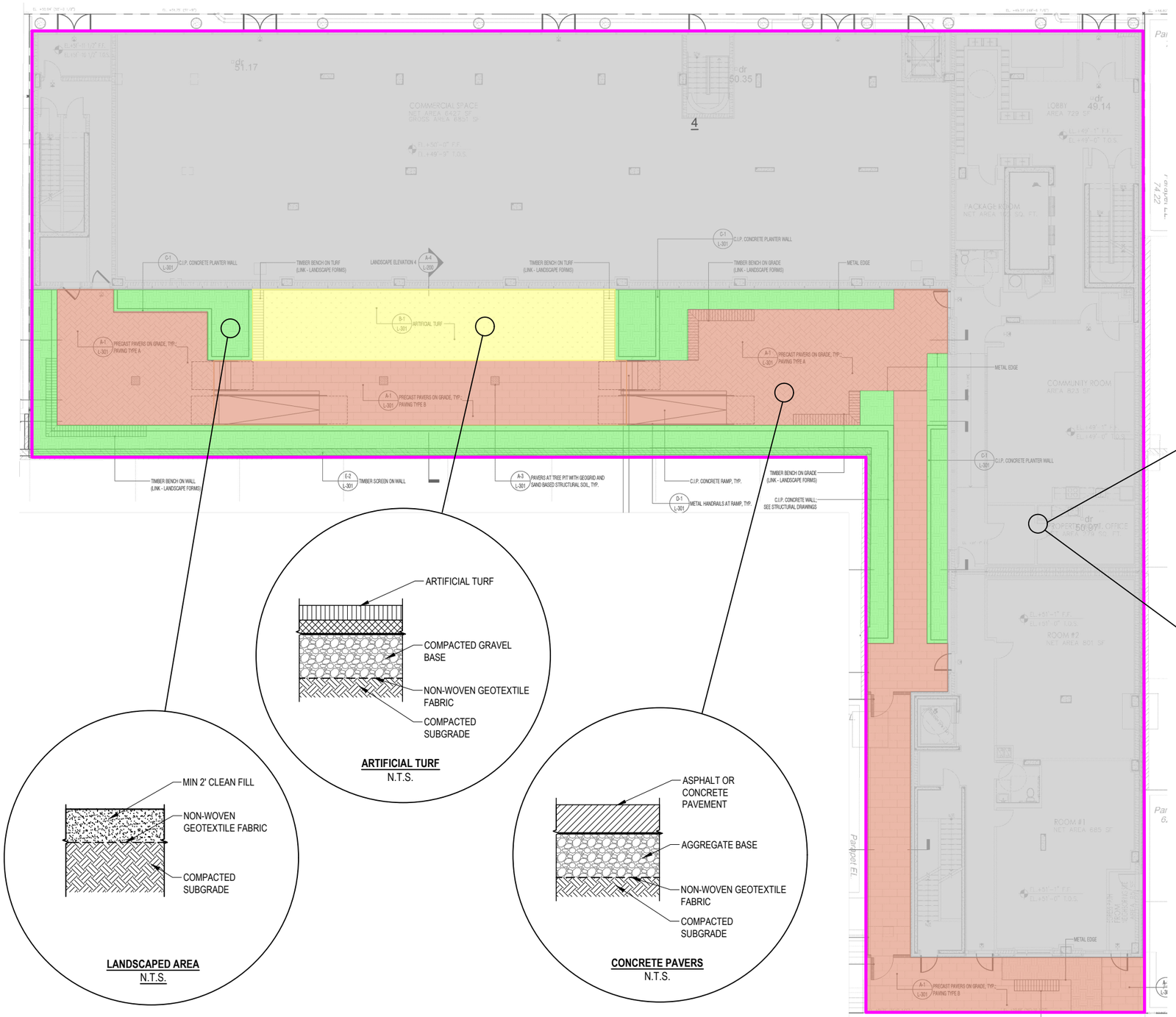
GROUNDWATER INJECTION PLAN

DATE
05/26/2026

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FIGURE
16

©2026 AKRF, Inc Q:\Projects\240854 - IKOS SENIOR LIVING-SART\Technical\Hazmat\CAD\240854 Fig 15 Groundwater Injection Plan.dwg last save: mvelleux 7/30/2026 7:14 PM



Source:
SLCE Architects, "IKOS Senior Living, 32-11 31st Street, Astoria, Queens, New York",
Dwg Title: Ground Floor Materials Plan, Dwg No: L-100.00, Revised 5/7/2026.

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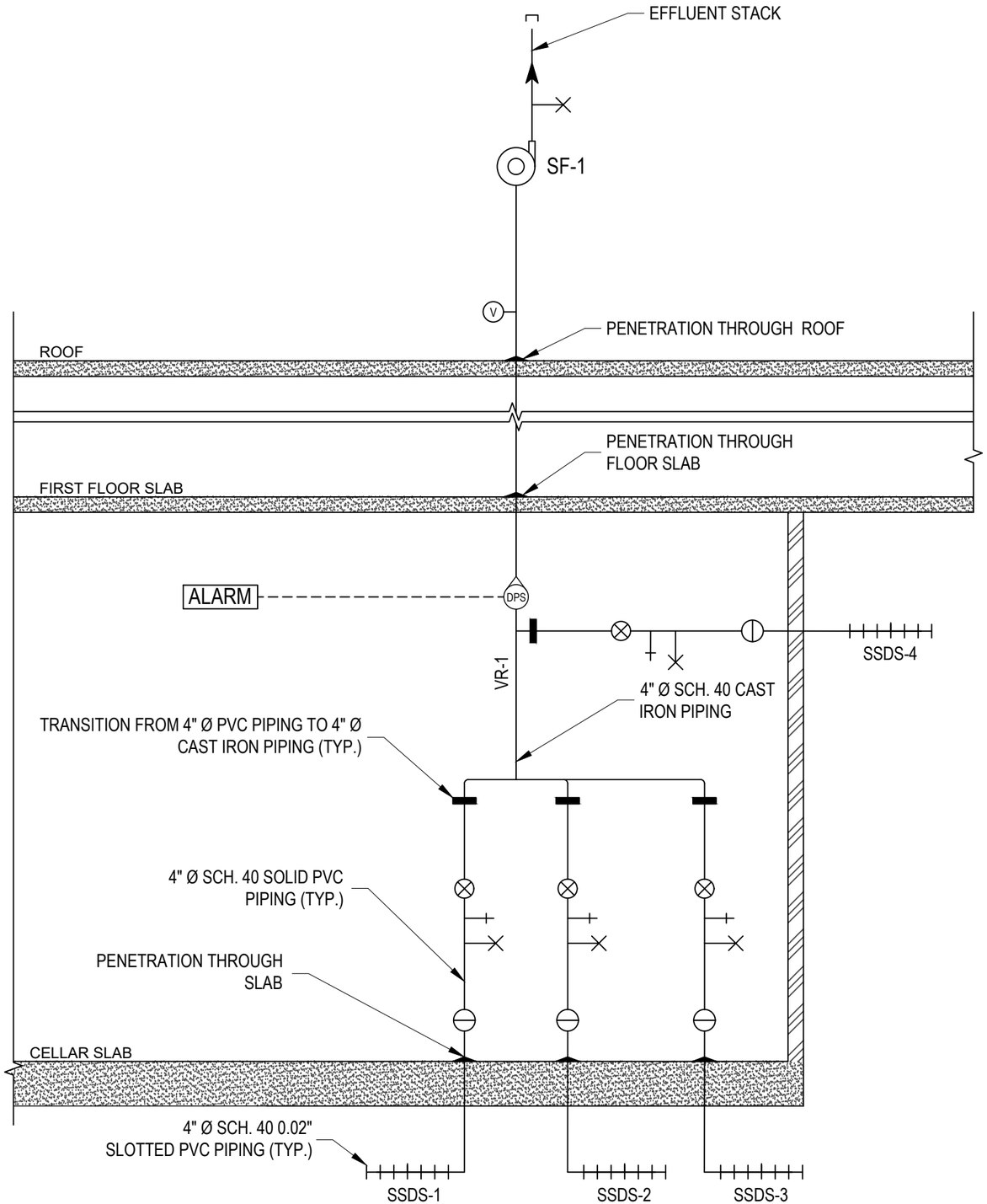
COVER SYSTEM PLAN

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FIGURE
17

©2026 AKRF, Inc Q:\Projects\240854 - IKOS SENIOR LIVING-SARITechnicalHazmat\CAD\240854 Fig 17 Cover System Plan.dwg last save: mvelilleux 7/31/2026 10:59 AM



LEGEND

- SCHEDULE 40 SOLID PIPE
- ELECTRICAL CONDUIT
- SCHEDULE 40 0.02-INCH SLOTTED PIPE
- RAIN CAP
- BUTTERFLY VALVE
- CLEANOUT
- SAMPLE PORT
- DIFFERENTIAL PRESSURE GAUGE
- SUCTION FAN
- DPS — DIFFERENTIAL PRESSURE SWITCH
- V — VACUUM GAUGE

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CONCEPTUAL SSDS PIPING AND INSTRUMENTATION DIAGRAM

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FIGURE
18

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ATTACHED TABLES

Table 1
32-11 31st Street
Queens, NY
Remedial Investigation
Groundwater Elevation Data

Well ID	Top of Casing Elevation (ft.)	Depth to Groundwater (ft. below TOC)	Groundwater Elevation (ft.)
RI-MW-01S	51.68	31.6	20.08
RI-MW-01D	51.69	31.69	20.00
RI-MW-02	49.84	29.91	19.93
RI-MW-03	51.58	31.28	20.3
RI-MW-04	50.32	30.29	20.03
RI-MW-05S	51.95	32.07	19.88
RI-MW-05D	51.59	31.6	19.99
RI-MW-06	51.61	32.79	18.82
RI-MW-07	54.17	35.03	19.14
RI-MW-08	55.32	36.12	19.2

Notes:
ft. = feet
TOC = top of casing
Elevation = feet above mean sea level based on the North American Vertical Datum of 1988 (NAVD88).

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
			Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
			Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.00028	J	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
2-Hexanone	NS	NS	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Acetone	**0.03**	100	N/A	0.0063	U	0.0087		0.011		0.0066		0.0093	J	0.0065	U
Benzene	0.06	3.7	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Bromodichloromethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Bromoform	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0018	U	0.0019	U	0.002	U	0.002	U	0.0022	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Chloroethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Chloromethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Cyclohexane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
M,P-Xylenes	NS	NS	N/A	0.00044	J	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Methyl Acetate	NS	NS	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0018	U	0.0019	U	0.002	U	0.002	UJ	0.0022	UJ
N-Butylbenzene	18	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
N-Propylbenzene	5	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Sec-Butylbenzene	25	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Styrene	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
T-Butylbenzene	11	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.001	U	0.0034		0.001		0.0011		0.00084	J	0.0011	
Toluene	0.7	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.00092	U	0.00097	U	0.00046	J	0.001	UJ	0.0011	UJ
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Xylenes, Total	0.26	100	N/A	0.00044	J	0.0018	U	0.0019	U	0.002	U	0.002	UJ	0.0022	UJ

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
			Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
			Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1,2-Trichloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1-Dichloroethane	0.27	47	0.27	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	UJ	0.0011	UJ	0.001	UJ	0.0015	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dichloropropane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
2-Hexanone	NS	NS	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	U
Acetone	**0.03**	100	N/A	0.008	U	0.0075	U	0.0074	U	0.0064	U	0.0068		0.017	
Benzene	0.06	3.7	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Bromochloromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Bromodichloromethane	NS	NS	NS	0.0013	UJ	0.0013	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.0015	U
Bromoform	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Bromomethane	NS	NS	N/A	0.0027	U	0.0025	U	0.0025	U	0.0021	U	0.0021	U	0.003	U
Carbon Disulfide	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chlorobenzene	4.5	100	4.5	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chloroform	0.37	24	0.37	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Cyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Dibromochloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Dichlorodifluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Ethylbenzene	1	76	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
M,P-Xylenes	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Methyl Acetate	NS	NS	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	U
Methylcyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Methylene Chloride	0.05	81	0.05	0.0027	U	0.0025	U	0.0025	U	0.0021	U	0.0021	U	0.003	U
N-Butylbenzene	18	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
N-Propylbenzene	5	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Sec-Butylbenzene	25	100	N/A	0.0013	UJ	0.0013	UJ	0.0012	U	0.0011	U	0.001	U	0.0015	U
Styrene	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
T-Butylbenzene	11	100	N/A	0.0013	UJ	0.0013	UJ	0.0012	U	0.0011	U	0.001	U	0.0015	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013	U	0.0013	U	0.00054	J	0.0011		0.0021		0.0015	U
Toluene	0.7	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trichlorofluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Vinyl Chloride	0.03	0.48	0.03	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	UJ
Xylenes, Total	0.26	100	N/A	0.0027	U	0.0025	U	0.0025	U	0.0021	U	0.0021	U	0.003	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
			Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	UJ	0.0011	UJ	0.001	UJ	0.0011	U	0.0012	U	0.0014	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0054	U	0.0052	U	0.0056	U	0.0059	U	0.0071	U
Acetone	**0.03**	100	N/A	0.014		0.0064	U	0.013		0.0095		0.007	U	0.0085	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Bromoform	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	UJ	0.0012	U	0.0014	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0021	U	0.0021	U	0.0023	U	0.0023	U	0.0028	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chloroform	0.37	24	0.37	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0011	U	0.0021		0.0011	U	0.0012	U	0.0014	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0054	U	0.0052	U	0.0056	U	0.0059	U	0.0071	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	UJ	0.0054	UJ	0.0052	UJ	0.0056	U	0.0059	UJ	0.0071	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0054	U	0.0052	U	0.0056	U	0.0059	U	0.0071	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0021	U	0.0021	U	0.0023	U	0.0023	U	0.0028	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0011	U	0.00076	J	0.0011	U	0.0012	U	0.0014	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Styrene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013		0.0012		0.00096	J	0.00039	J	0.0027	J	0.012	J
Toluene	0.7	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0014		0.0018	
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	UJ	0.0011	UJ	0.001	UJ	0.0011	U	0.0012	U	0.0014	U
Xylenes, Total	0.26	100	N/A	0.0021	U	0.0021	U	0.0029		0.0023	U	0.0023	U	0.0028	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
			Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
			Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	UJ	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.0055	U	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Acetone	**0.03**	100	N/A	0.0066	U	0.007	U	0.007	U	0.0073	U	0.016		0.0085	
Benzene	0.06	3.7	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	UJ	0.00096	UJ	0.0011	UJ
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Bromoform	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	UJ	0.00096	UJ	0.0011	UJ
Bromomethane	NS	NS	N/A	0.0022	U	0.0023	U	0.0023	U	0.0024	U	0.0019	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chloroform	0.37	24	0.37	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0012	UJ	0.0012	UJ	0.0012	U	0.00096	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.0055	U	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0055	UJ	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0055	U	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0023	U	0.0023	U	0.0024	U	0.0019	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Styrene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.055		0.0012	U	0.0012	U	0.0011	J	0.0035	JK	0.0017	
Toluene	0.7	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.00085	J	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	UJ	0.0012	U	0.0012	U	0.0012	UJ	0.00096	UJ	0.0011	UJ
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0023	U	0.0023	U	0.0024	U	0.0019	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
			Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
			Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	UJ	0.0012	UJ	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	U	0.0012	UJ	0.0012	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Acetone	**0.03**	100	N/A	0.019		0.0079		0.007	U	0.0077		0.0073	U	0.0071	U
Benzene	0.06	3.7	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromoform	NS	NS	N/A	0.001	UJ	0.0012	UJ	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromomethane	NS	NS	N/A	0.002	U	0.0024	U	0.0023	U	0.0024	U	0.0024	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chloroethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chloroform	0.37	24	0.37	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chloromethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Ethylbenzene	1	76	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
Methylene Chloride	0.05	81	0.05	0.002	U	0.0024	U	0.0023	U	0.0024	U	0.0024	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
N-Propylbenzene	5	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
Styrene	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0014		0.00052	J	0.0061		0.0093		0.00038	J	0.00054	J
Toluene	0.7	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.002	U	0.0024	U	0.0023	U	0.0024	U	0.0024	U	0.0024	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
			Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
			Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0013	UJ	0.001	UJ	0.0012	UJ	0.00098	UJ	0.0012	UJ
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0056	U	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Acetone	**0.03**	100	N/A	0.0067	U	0.0087		0.012		0.0072	U	0.0059	U	0.0071	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0013	UJ	0.001	UJ	0.0012	UJ	0.00098	UJ	0.0012	UJ
Bromoform	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0022	U	0.0027	U	0.002	U	0.0024	U	0.002	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0056	U	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0056	U	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0056	UJ	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0027	U	0.002	U	0.0024	U	0.002	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
N-Propylbenzene	5	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
Styrene	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013	JL	0.00084	J	0.0004	J	0.0012	U	0.00098	U	0.001	J
Toluene	0.7	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0022	UJ	0.0027	U	0.002	U	0.0024	U	0.002	U	0.0024	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
			Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
			Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0012	U	0.00092	J	0.0013	U	0.00052	J	0.0012	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0059	U	0.0064	U	0.0064	U	0.0066	U	0.0061	U	0.0058	U
Acetone	**0.03**	100	N/A	0.0071	U	0.018		**0.048**		0.022		0.0073	U	0.0096	
Benzene	0.06	3.7	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0012	U	0.0013	UJ	0.0013	UJ	0.0013	UJ	0.0012	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Bromoform	NS	NS	N/A	0.0012	U	0.0013	UJ	0.0013	UJ	0.0013	UJ	0.0012	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0024	U	0.0026	U	0.0026	U	0.0026	U	0.0024	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chloroethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chloroform	0.37	24	0.37	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chloromethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0012	UJ	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0059	U	0.0064	U	0.0064	U	0.0066	U	0.0061	U	0.0058	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0059	U	0.0024	J	0.0064		0.0032	J	0.0061	U	0.0058	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0059	U	0.0064	U	0.0064	U	0.0066	U	0.0061	U	0.0058	U
Methylcyclohexane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0024	U	0.0026	U	0.0026	U	0.0026	U	0.0024	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Styrene	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0012	U	0.0013	U	0.0013	U	0.00061	J	0.0012	U	0.00051	J
Toluene	0.7	100	N/A	0.0012	U	0.0012	J	0.00052	J	0.00072	J	0.0012	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0012	U	0.0013	UJ	0.0013	UJ	0.0013	UJ	0.0012	UJ	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0024	U	0.0007	J	0.0026	U	0.00045	J	0.0024	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
			Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1,2-Trichloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1-Dichloroethane	0.27	47	0.27	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0013	UJ
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dichloropropane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
2-Hexanone	NS	NS	N/A	0.0064	U	0.0065	U	0.0057	U	0.0056	U	0.0053	U	0.0064	U
Acetone	**0.03**	100	N/A	0.021		0.0078	U	0.0068	U	0.0068	U	0.0064	U	0.0077	U
Benzene	0.06	3.7	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromochloromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromodichloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromoform	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromomethane	NS	NS	N/A	0.0026	U	0.0026	U	0.0023	U	0.0023	U	0.0021	U	0.0026	U
Carbon Disulfide	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chlorobenzene	4.5	100	4.5	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chloroform	0.37	24	0.37	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Cyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Dibromochloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Dichlorodifluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Ethylbenzene	1	76	N/A	0.006		0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
M,P-Xylenes	NS	NS	N/A	0.034		0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Methyl Acetate	NS	NS	N/A	0.0064	U	0.0065	U	0.0057	U	0.0056	U	0.0053	U	0.0064	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0064	UJ	0.0065	UJ	0.0057	UJ	0.0056	UJ	0.0053	UJ	0.0064	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0064	U	0.0065	U	0.0057	U	0.0056	U	0.0053	U	0.0064	U
Methylcyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Methylene Chloride	0.05	81	0.05	0.0026	U	0.0026	U	0.0023	U	0.0023	U	0.0021	U	0.0026	U
N-Butylbenzene	18	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
N-Propylbenzene	5	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0098		0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Sec-Butylbenzene	25	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Styrene	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
T-Butylbenzene	11	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013	UJ	0.0013	UJ	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Toluene	0.7	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trichlorofluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Vinyl Chloride	0.03	0.48	0.03	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Xylenes, Total	0.26	100	N/A	0.044		0.0026	U	0.0023	U	0.0023	U	0.0021	U	0.0026	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
			Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	UJ	0.0012	UJ	0.0012	UJ	0.0013	UJ	0.0018	UJ	0.0014	UJ
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
2-Hexanone	NS	NS	N/A	0.0055	U	0.0061	U	0.0061	U	0.0065	U	0.0091	U	0.0068	U
Acetone	**0.03**	100	N/A	0.0066	U	0.0077		0.0073	U	0.0078	U	0.011	U	0.011	
Benzene	0.06	3.7	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromoform	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromomethane	NS	NS	N/A	0.0022	U	0.0025	U	0.0024	U	0.0026	U	0.0037	U	0.0027	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chloroform	0.37	24	0.37	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0017	
Methyl Acetate	NS	NS	N/A	0.0055	U	0.0061	U	0.0061	U	0.0065	U	0.0091	U	0.0068	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0055	UJ	0.0061	UJ	0.0061	UJ	0.0065	UJ	0.0091	UJ	0.0068	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0055	U	0.0061	U	0.0061	U	0.0065	U	0.0091	U	0.0068	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0025	U	0.0024	U	0.0026	U	0.0037	U	0.0027	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Styrene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0011	U	0.0012	U	0.0012	U	0.00042	J	0.0018	U	0.0014	U
Toluene	0.7	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0025	U	0.0024	U	0.0026	U	0.0037	U	0.0022	J

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
			Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0062	U	0.006	U	0.0055	U	0.0056	U	0.0058	U
Acetone	**0.03**	100	N/A	0.011		0.012		0.0072	U	0.011	J	0.0067	U	0.0086	
Benzene	0.06	3.7	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromoform	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Ethylbenzene	1	76	N/A	0.00077	J	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0041		0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0062	U	0.006	U	0.0055	U	0.0056	U	0.0058	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	UJ	0.0062	UJ	0.006	UJ	0.0055	UJ	0.0056	UJ	0.0058	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0062	U	0.006	U	0.0055	U	0.0056	U	0.0058	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0012		0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Styrene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0011	UJ	0.00073	J	0.00067	J	0.00051	JK	0.00096	JK	0.0017	J
Toluene	0.7	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0053		0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
			Lab Sample ID	460-349775-22		460-349775-23		460-349775-24		460-349846-6		460-349846-7		460-349846-8	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0011	UJ	0.001	UJ	0.0011	U	0.00097	U	0.001	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	UJ	0.00097	U	0.001	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
2-Hexanone	NS	NS	N/A	0.0054	U	0.0055	U	0.005	U	0.0056	U	0.0048	U	0.0051	U
Acetone	**0.03**	100	N/A	0.0065	U	0.0067	U	0.006	U	0.0067		0.0058	U	0.0061	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	UJ	0.00097	U	0.001	U
Bromoform	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Bromomethane	NS	NS	N/A	0.0022	U	0.0022	U	0.002	U	0.0022	U	0.0019	U	0.002	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chloroform	0.37	24	0.37	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Methyl Acetate	NS	NS	N/A	0.0054	U	0.0055	U	0.005	U	0.0056	U	0.0048	U	0.0051	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0054	UJ	0.0055	UJ	0.005	UJ	0.0056	U	0.0048	U	0.0051	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0054	U	0.0055	U	0.005	U	0.0056	U	0.0048	U	0.0051	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0022	U	0.002	U	0.0022	U	0.0019	U	0.002	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Styrene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0099	J	0.0011	U	0.001	U	0.0019		0.0011		0.00056	J
Toluene	0.7	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0011	UJ	0.001	UJ	0.0011	U	0.00097	U	0.001	U
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0022	U	0.002	U	0.0022	U	0.0019	U	0.002	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428		RI-SB-13_0-0.17_20260428	
			Lab Sample ID	460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13		460-349846-14	
			Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
			Dilution Factor	50		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Acetone	**0.03**	100	N/A	0.58	U	0.022		0.0066	U	0.0058	U	0.007	U	0.0071	U
Benzene	0.06	3.7	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromoform	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromomethane	NS	NS	N/A	0.12	U	0.0022	U	0.0022	U	0.0019	U	0.0023	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.12	UJ	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chloroethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chloroform	0.37	24	0.37	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chloromethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Ethylbenzene	1	76	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.12	U	0.0022	U	0.0022	U	0.0019	U	0.0023	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Styrene	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	**3.8**		0.0052		0.0011	U	0.00097	U	0.0012	U	0.0012	U
Toluene	0.7	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.23	U	0.0022	U	0.0022	U	0.0019	U	0.0023	U	0.0024	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
			Lab Sample ID	460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7		460-349933-8	
			Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Acetone	**0.03**	100	N/A	0.0074		0.0053	U	0.0054	U	0.015		0.0058	U	0.007	U
Benzene	0.06	3.7	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromoform	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0018	U	0.0018	U	0.0023	U	0.0019	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	UJ	0.00089	UJ	0.0009	UJ	0.0011	U	0.00096	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.00055	J	0.00096	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0018	U	0.0018	U	0.0023	U	0.0019	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
N-Propylbenzene	5	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
Styrene	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0041		0.00089	U	0.0009	U	0.00039	J	0.0017		0.00053	J
Toluene	0.7	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.00055	J	0.00096	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0021	U	0.0018	U	0.0018	U	0.00055	J	0.0019	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429		RI-DUP-03_20260429	
			Lab Sample ID	460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13		460-349933-14	
			Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Acetone	**0.03**	100	N/A	0.0072	U	0.022		0.0063	U	0.0062	U	0.007	J	0.0068	U
Benzene	0.06	3.7	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromodichloromethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromoform	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.0024	U	0.0025	U	0.0021	U	0.0021	U	0.002	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chloroethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chloromethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Methylcyclohexane	NS	NS	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
Methylene Chloride	0.05	81	0.05	0.0024	U	0.0025	U	0.0021	U	0.0021	U	0.002	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
N-Propylbenzene	5	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
Styrene	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013		0.017		0.00056	J	0.0006	J	0.0009	J	0.0014	
Toluene	0.7	100	N/A	0.0012	U	0.00051	J	0.0011	U	0.001	U	0.001	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Xylenes, Total	0.26	100	N/A	0.0024	U	0.0025	U	0.0021	U	0.0021	U	0.002	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428		RI-SB-TB-01_20260428	
			Lab Sample ID	460-349933-15		460-350137-7		460-350879-3		460-349846-19		460-349846-20	
			Sample Date	4/29/2026		5/1/2026		5/12/2026		4/28/2026		4/28/2026	
			Dilution Factor	1		1		1		1		1	
			Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	NS	NS	NS	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U
1,1-Dichloroethane	0.27	47	0.27	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	0.24	0.98	0.33	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5.9	100	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	1.1	100	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.02	5.8	0.02	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
1,2-Dichloropropane	NS	NS	NS	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	2.6	38	N/A	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	1.8	24	N/A	1	U	1	U	1	U	1	U	1	U
2-Hexanone	NS	NS	N/A	5	U	5	U	5	U	5	UJ	5	UJ
Acetone	**0.03**	100	N/A	5	U	5	U	5	U	5	U	5	U
Benzene	0.06	3.7	N/A	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Bromochloromethane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	NS	NS	NS	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Bromoform	NS	NS	N/A	1	UJ	1	UJ	1	U	1	U	1	U
Bromomethane	NS	NS	N/A	1	U	1	U	1	U	1	UJ	1	UJ
Carbon Disulfide	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	0.76	7.1	0.76	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	4.5	100	4.5	1	U	1	U	1	U	1	U	1	U
Chloroethane	NS	NS	NS	1	U	1	U	1	U	1	UJ	1	UJ
Chloroform	0.37	24	0.37	1	U	1	U	1	U	1	U	1	U
Chloromethane	NS	NS	NS	1	U	1	U	1	U	1	UJ	1	UJ
Cis-1,2-Dichloroethylene	0.19	41	0.19	1	U	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Cyclohexane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	NS	NS	NS	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U
Dichlorodifluoromethane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	1	76	N/A	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	NS	NS	N/A	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	5	U	5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	0.05	81	0.05	1	U	1	U	1	U	1	U	1	U
N-Butylbenzene	18	100	N/A	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	100	N/A	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	25	100	N/A	1	U	1	U	1	U	1	U	1	U
Styrene	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	11	100	N/A	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	0.1	100	N/A	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Toluene	0.7	100	N/A	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	0.19	100	0.19	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	0.03	0.48	0.03	1	U	1	U	1	U	1	UJ	1	UJ
Xylenes, Total	0.26	100	N/A	2	U	2	U	2	U	2	U	2	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-TB-03_20260501		RI-TB-04_20260512	
			Lab Sample ID	460-350137-8		460-350879-4	
			Sample Date	5/1/2026		5/12/2026	
			Dilution Factor	1		1	
			Unit	µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	1	U	1	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	1	U	1	U
1,1,2-Trichloroethane	NS	NS	NS	0.58	U	0.58	U
1,1-Dichloroethane	0.27	47	0.27	1	U	1	U
1,1-Dichloroethene	0.24	0.98	0.33	1	U	1	U
1,2,3-Trichlorobenzene	NS	NS	N/A	1	U	1	U
1,2,4-Trichlorobenzene	NS	NS	N/A	1	U	1	U
1,2,4-Trimethylbenzene	5.9	100	N/A	1	U	1	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	1	U	1	U
1,2-Dichlorobenzene	1.1	100	N/A	1	U	1	U
1,2-Dichloroethane	0.02	5.8	0.02	0.3	U	0.3	U
1,2-Dichloropropane	NS	NS	NS	0.92	U	0.92	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	1	U	1	U
1,3-Dichlorobenzene	2.6	38	N/A	1	U	1	U
1,4-Dichlorobenzene	1.8	24	N/A	1	U	1	U
2-Hexanone	NS	NS	N/A	5	U	5	U
Acetone	**0.03**	100	N/A	5	U	5	U
Benzene	0.06	3.7	N/A	0.45	U	0.45	U
Bromochloromethane	NS	NS	N/A	1	U	1	U
Bromodichloromethane	NS	NS	NS	0.98	U	0.98	U
Bromoform	NS	NS	N/A	1	UJ	1	U
Bromomethane	NS	NS	N/A	1	U	1	U
Carbon Disulfide	NS	NS	N/A	1	U	1	U
Carbon Tetrachloride	0.76	7.1	0.76	1	U	1	U
Chlorobenzene	4.5	100	4.5	1	U	1	U
Chloroethane	NS	NS	NS	1	U	1	U
Chloroform	0.37	24	0.37	1	U	1	U
Chloromethane	NS	NS	NS	1	U	1	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	1	U	1	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U
Cyclohexane	NS	NS	N/A	1	U	1	U
Dibromochloromethane	NS	NS	NS	0.78	U	0.78	U
Dichlorodifluoromethane	NS	NS	N/A	1	U	1	U
Ethylbenzene	1	76	N/A	1	U	1	U
Isopropylbenzene (Cumene)	NS	NS	N/A	1	U	1	U
M,P-Xylenes	NS	NS	N/A	0.31	J	1	U
Methyl Acetate	NS	NS	N/A	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	5	U	5	U
Methylcyclohexane	NS	NS	N/A	1	U	1	U
Methylene Chloride	0.05	81	0.05	0.87	J	1	U
N-Butylbenzene	18	100	N/A	1	U	1	U
N-Propylbenzene	5	100	N/A	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	1	U	1	U
Sec-Butylbenzene	25	100	N/A	1	U	1	U
Styrene	NS	NS	N/A	1	U	1	U
T-Butylbenzene	11	100	N/A	1	U	1	U
Tert-Butyl Methyl Ether	0.1	100	N/A	1	U	1	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.4	U	0.4	U
Toluene	0.7	100	N/A	1	U	1	U
Trans-1,2-Dichloroethene	0.19	100	0.19	1	U	1	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.28	U	0.28	U
Trichlorofluoromethane	NS	NS	N/A	1	U	1	U
Vinyl Chloride	0.03	0.48	0.03	1	U	1	U
Xylenes, Total	0.26	100	N/A	2	U	2	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003	SB-03_31-33_20221003	SB-04_0-2_20221003
			Lab Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2	460-266752-3	460-266752-4	460-266752-5
			Sample Date	10/5/2022	10/5/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
			Dilution Factor	1	1	1	1	1	1	1
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1,2-Trichloroethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1-Dichloroethane	0.27	47	0.27	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1-Dichloroethene	0.24	0.98	0.33	0.0013 U	0.0013 UJ	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.00055 J	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dichlorobenzene	1.1	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dichloroethane	0.02	5.8	0.02	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dichloropropane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,3-Dichlorobenzene	2.6	38	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,4-Dichlorobenzene	1.8	24	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
2-Hexanone	NS	NS	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Acetone	**0.03**	100	N/A	0.008 U	**0.16**	0.0012 U	0.0071	0.0014 U	0.014	0.0013 U
Benzene	0.06	3.7	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Bromochloromethane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Bromodichloromethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Bromoform	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 UJ	0.00019 UJ	0.00023 UJ	0.0002 UJ	0.00021 U
Bromomethane	NS	NS	N/A	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U	0.00039 U	0.00043 U
Carbon Disulfide	NS	NS	N/A	0.0013 U	0.0013 UJ	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Carbon Tetrachloride	0.76	7.1	0.76	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chlorobenzene	4.5	100	4.5	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chloroethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chloroform	0.37	24	0.37	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chloromethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Cyclohexane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Dibromochloromethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Dichlorodifluoromethane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Ethylbenzene	1	76	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
M,P-Xylenes	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Methyl Acetate	NS	NS	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Methylcyclohexane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Methylene Chloride	0.05	81	0.05	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U	0.00039 U	0.00043 U
N-Butylbenzene	18	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
N-Propylbenzene	5	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Sec-Butylbenzene	25	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Styrene	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
T-Butylbenzene	11	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.0013 UJ	0.002	0.0013	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Toluene	0.7	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trichlorofluoromethane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Vinyl Chloride	0.03	0.48	0.03	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Xylenes, Total	0.26	100	N/A	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U	0.00039 U	0.00043 U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004		SB-06_0-2_20221004		SB-06_29-31_20221004	
			Lab Sample ID	460-317091-1		460-317091-2		460-266752-6		460-266826-1		460-266826-2		460-266826-3		460-266826-4	
			Sample Date	12/11/2024		12/11/2024		10/3/2022		10/4/2022		10/4/2022		10/4/2022		10/4/2022	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	UJ	0.0016	UJ	0.0014	UJ	0.0012	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.005	U	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Acetone	**0.03**	100	N/A	0.006	U	0.0066	U	0.0012	U	0.0065	U	**0.14**		0.0085	U	0.0073	U
Benzene	0.06	3.7	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromoform	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromomethane	NS	NS	N/A	0.002	U	0.0022	U	0.00039	U	0.0022	U	0.0032	U	0.0028	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chloroform	0.37	24	0.37	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Ethylbenzene	1	76	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.005	U	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.005	U	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.005	UT	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.002	U	0.0022	U	0.00039	U	0.0022	U	0.0032	U	0.0028	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	UJ	0.0016	UJ	0.0014	UJ	0.0012	UJ
N-Propylbenzene	5	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Styrene	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.001	U	0.0016		0.0002	U	0.0097		0.0014	J	0.0014	U	0.00087	J
Toluene	0.7	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.002	U	0.0022	U	0.00039	U	0.0022	U	0.0032	U	0.0028	U	0.0024	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213		SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212	
			Lab Sample ID	460-266752-7		460-266752-8		460-317270-1		460-317270-2		460-317270-3		460-317182-1		460-317182-2	
			Sample Date	10/3/2022		10/3/2022		12/13/2024		12/13/2024		12/13/2024		12/12/2024		12/12/2024	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.00022	U	0.0002	U	0.00096	UJ	0.00098	UJ	0.0011	UJ	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	UJ	0.00098	UJ	0.0011	UJ	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
1,2-Dichloropropane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	UJ	0.0055	U	0.005	U	0.0055	U
Acetone	**0.03**	100	N/A	0.01		**0.031**		0.0058	U	0.0059	U	0.0066	U	0.006	U	0.0066	U
Benzene	0.06	3.7	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.00022	U	0.0002	UJ	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromodichloromethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromoform	NS	NS	N/A	0.00022	U	0.0002	UJ	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.00043	U	0.0004	U	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0022	U
Carbon Disulfide	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.00022	U	0.0002	UJ	0.00096	UJ	0.00098	U	0.0011	UJ	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Chloroethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Chloromethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	U	0.0055	U	0.005	U	0.0055	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	U	0.0055	U	0.005	U	0.0055	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	U	0.0055	U	0.005	U	0.0055	U
Methylcyclohexane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.00043	U	0.0004	U	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0022	U
N-Butylbenzene	18	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
N-Propylbenzene	5	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Styrene	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.00022	UT	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.00024		0.00024		0.0027		0.0088		0.0011	U	0.0036		0.0026	
Toluene	0.7	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Xylenes, Total	0.26	100	N/A	0.00043	U	0.0004	U	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0022	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212		SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212	
			Lab Sample ID	460-317182-3		460-317182-4		460-317182-5		460-317182-6		460-317182-7		460-317182-8		460-317182-9	
			Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	UJ	0.0012	UJ
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0056	U	0.0053	U	0.0047	U	0.006	U	0.0069	U	0.0053	U	0.0059	U
Acetone	**0.03**	100	N/A	0.0067	U	0.0064	U	0.018		0.0072	U	0.0083	U	0.0063	U	0.0071	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Bromoform	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	UJ	0.0012	UJ
Bromomethane	NS	NS	N/A	0.0022	U	0.0021	U	0.0019	U	0.0024	U	0.0028	U	0.0021	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0011	U	0.00075	J	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0056	U	0.0053	U	0.0047	U	0.006	U	0.0069	U	0.0053	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0056	U	0.0053	U	0.0065		0.006	U	0.0069	U	0.0053	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0056	U	0.0053	U	0.0047	U	0.006	U	0.0069	U	0.0053	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0021	U	0.0011	J	0.0024	U	0.0028	U	0.0021	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Styrene	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	UJ
Tetrachloroethylene (PCE)	1.3	18	1.3	0.001	J	0.00077	J	0.0059		0.00076	J	0.0043		0.087		0.0023	
Toluene	0.7	100	N/A	0.0011	U	0.00035	J	0.00023	J	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	UJ	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.00038	J	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0021	U	0.0019	U	0.0024	U	0.0028	U	0.0021	U	0.0024	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-12_0-2_20241211		SB-12_8-10_20241211		SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
			Lab Sample ID	460-317091-3		460-317091-4		460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
			Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Acetone	**0.03**	100	N/A	0.006	U	0.0063	U	0.0066	U	0.0063	U	0.0066	U	0.006	U	0.0066	U
Benzene	0.06	3.7	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromodichloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromoform	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.002	U	0.0021	U	0.0022	U	0.0021	U	0.0022	U	0.002	U	0.0022	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.002	U	0.0021	U	0.0022	U	0.0021	U	0.0022	U	0.002	U	0.0022	U
N-Butylbenzene	18	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
N-Propylbenzene	5	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Styrene	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.0057		0.00051	J	0.00073	J	0.0011	U	0.0011	U	0.002		0.0079	
Toluene	0.7	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Xylenes, Total	0.26	100	N/A	0.002	U	0.0021	U	0.0022	U	0.0021	U	0.0022	U	0.002	U	0.0022	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211		TB-01_20241211	
			Lab Sample ID	460-317091-6		460-317091-7		460-317091-12	
			Sample Date	12/11/2024		12/11/2024		12/11/2024	
			Dilution Factor	1		1		1	
			Unit	mg/kg		mg/kg		µg/L	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.00097	U	1	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.00097	U	1	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.00097	U	1	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.00097	U	1	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.00097	U	1	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.00097	U	1	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.00097	U	1	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.00097	U	1	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.00097	U	1	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.00097	U	1	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0049	U	5	U
Acetone	**0.03**	100	N/A	0.0063	U	0.0058	U	5	U
Benzene	0.06	3.7	N/A	0.0011	U	0.00097	U	1	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Bromoform	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0019	U	1	UJ
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.00097	U	1	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.00097	U	1	U
Chloroethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Chloroform	0.37	24	0.37	0.0011	U	0.00097	U	1	U
Chloromethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.00097	U	1	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00097	U	1	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Ethylbenzene	1	76	N/A	0.0011	U	0.00097	U	1	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0049	U	5	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	U	0.0049	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0049	U	5	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0019	U	1	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.00097	U	1	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.00097	U	1	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.00097	U	1	U
Styrene	NS	NS	N/A	0.0011	U	0.00097	U	1	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.00097	U	1	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.00097	U	1	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.00088	J	0.012		1	U
Toluene	0.7	100	N/A	0.0011	U	0.00097	U	1	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.00097	U	1	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00097	U	1	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.00097	U	1	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.00097	U	1	UJ
Xylenes, Total	0.26	100	N/A	0.0021	U	0.0019	U	2	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513		RI-SB-02_0-0.17_20260429	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6		460-349933-17	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	UJ	0.13	UJ	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.27	U	0.28	U	0.29	U	0.27	U	0.27	UJ	0.27	UJ	0.27	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.073	U	0.067	U	0.067	UJ	0.067	UJ	0.069	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.073	U	0.067	U	0.067	UJ	0.067	UJ	0.069	U
2-Chloronaphthalene	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
2-Chlorophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
2-Methylnaphthalene	NS	NS	0.025	J	0.019	J	0.36	U	0.33	U	0.33	U	0.33	U	0.016	J
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.22	U	0.2	U	0.2	UJ	0.2	UJ	0.2	U
2-Nitroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
2-Nitrophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.22	U	0.2	U	0.2	U	0.2	U	0.2	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.28	U	0.29	U	0.27	U	0.27	UJ	0.27	UJ	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
4-Chloroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4-Nitroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4-Nitrophenol	NS	NS	0.67	U	0.7	U	0.73	U	0.67	U	0.67	U	0.67	U	0.69	U
Acenaphthene	20	100	0.016	J	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.011	J
Acenaphthylene	100	100	0.011	J	0.016	J	0.0075	J	0.012	J	0.33	UJ	0.33	UJ	0.02	J
Acetophenone	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Aniline	0.04	8.1	0.035	U	0.037	U	0.038	U	0.035	U	0.035	U	0.035	U	0.036	U
Anthracene	100	100	0.038	J	0.07	J	0.014	J	0.017	J	0.33	UJ	0.33	UJ	0.046	J
Atrazine	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.34	UJ	0.36	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.16		0.28		0.13		0.13		0.033	UJ	0.033	UJ	0.28	
Benzo(a)Pyrene	**1**	1	0.16		0.24		0.12		0.14		0.011	JL	0.033	UJ	0.3	J
Benzo(b)Fluoranthene	**1**	1.4	0.22		0.38		0.17		0.17		0.013	JL	0.033	UJ	0.41	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.13	J	0.29	J	0.093	J	0.23	J	0.33	UJ	0.33	UJ	0.24	J
Benzo(k)Fluoranthene	**0.8**	4.9	0.08		0.15		0.058		0.078		0.0067	JL	0.033	UJ	0.17	J
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.016	J	0.33	U	0.33	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.0071	J	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	U	0.041	J	0.36	U	0.33	U	0.33	U	0.33	U	0.069	J
Caprolactam	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Carbazole	NS	NS	0.027	J	0.025	J	0.36	U	0.33	U	0.33	U	0.33	U	0.022	J
Chrysene	**1**	4.9	0.16	J	0.33	J	0.13	J	0.12	J	0.012	JL	0.33	UJ	0.32	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.026	J	0.049		0.02	J	0.04		0.033	UJ	0.033	UJ	0.063	
Dibenzofuran	2.1	18	0.011	J	0.021	J	0.36	U	0.33	U	0.33	U	0.33	U	0.0063	J
Diethyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Dimethyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Fluoranthene	85	100	0.28	J	0.56		0.18	J	0.16	J	0.017	J	0.33	UJ	0.52	
Fluorene	30	100	0.013	J	0.0068	J	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.0081	J
Hexachlorobenzene	0.33	0.33	0.033	U	0.034	U	0.036	U	0.033	U	0.033	UJ	0.033	U	0.034	U
Hexachlorobutadiene	NS	NS	0.067	U	0.07	U	0.073	U	0.067	U	0.067	U	0.067	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.12		0.25		0.089		0.16		0.033	UJ	0.033	UJ	0.24	
Isophorone	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	UJ	0.13	UJ	0.14	U
Naphthalene	12	100	0.021	J	0.026	J	0.0092	J	0.33	U	0.33	UJ	0.33	UJ	0.013	J
Nitrobenzene	0.08	1.8	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.28	U	0.29	U	0.27	U	0.27	UJ	0.27	UJ	0.27	U
Phenanthrene	**1.1**	4.9	0.16	J	0.33	J	0.048	J	0.018	J	0.011	JL	0.33	UJ	0.2	J
Phenol	0.33	100	0.2	U	0.21	U	0.22	U	0.2	U	0.2	U	0.2	U	0.2	U
Pyrene	64	100	0.24	J	0.54		0.18	J	0.17	J	0.019	J	0.33	U	0.52	

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427		RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427	
		Lab Sample ID	460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25		460-349775-26		460-349775-27	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.37	U	0.36	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.29	U	0.29	U	0.29	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.069	U	0.067	U	0.073	U	0.074	U	0.073	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.069	U	0.067	U	0.073	U	0.074	U	0.073	U
2-Chloronaphthalene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2-Chlorophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2-Methylnaphthalene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.021	J	0.37	U	0.36	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.2	U	0.21	U	0.2	U	0.22	U	0.22	U	0.22	U
2-Nitroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2-Nitrophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.2	U	0.21	U	0.2	U	0.22	U	0.22	U	0.22	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.29	U	0.29	U	0.29	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Chloroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	UJ	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Nitroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Nitrophenol	NS	NS	0.67	U	0.68	U	0.69	U	0.67	U	0.73	U	0.74	U	0.73	U
Acenaphthene	20	100	0.33	U	0.33	U	0.34	U	0.33	U	0.067	J	0.015	J	0.025	J
Acenaphthylene	100	100	0.33	U	0.33	U	0.34	U	0.33	U	0.02	J	0.37	U	0.36	U
Acetophenone	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Aniline	0.04	8.1	0.035	U	0.035	U	0.036	U	0.035	U	0.038	U	0.039	U	0.038	U
Anthracene	100	100	0.33	U	0.33	U	0.34	U	0.33	U	0.22	J	0.041	J	0.066	J
Atrazine	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.33	UJ	0.34	UJ	0.33	UJ	0.36	UJ	0.37	UJ	0.36	UJ
Benzo(a)Anthracene	**1**	1.4	0.055		0.033	U	0.034	U	0.033	U	0.54		0.092		0.17	
Benzo(a)Pyrene	**1**	1	0.046	J	0.033	UJ	0.034	UJ	0.033	UJ	0.42		0.065		0.13	
Benzo(b)Fluoranthene	**1**	1.4	0.062		0.033	U	0.034	U	0.033	U	0.55		0.083		0.17	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.032	J	0.33	U	0.34	U	0.33	U	0.22	J	0.04	J	0.078	J
Benzo(k)Fluoranthene	**0.8**	4.9	0.021	J	0.033	UJ	0.034	UJ	0.033	UJ	0.22		0.031	J	0.071	
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.006	J	0.37	U	0.36	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	UJ	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.37	U	0.36	U
Caprolactam	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Carbazole	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.077	J	0.37	U	0.023	J
Chrysene	**1**	4.9	0.054	J	0.33	U	0.34	U	0.33	U	0.54		0.092	J	0.17	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.0095	J	0.033	U	0.034	U	0.033	U	0.058		0.0097	J	0.021	J
Dibenzofuran	2.1	18	0.33	U	0.33	U	0.34	U	0.33	U	0.046	J	0.0085	J	0.014	J
Diethyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Dimethyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Fluoranthene	85	100	0.087	J	0.33	U	0.34	U	0.33	U	1.2		0.21	J	0.38	
Fluorene	30	100	0.33	U	0.33	U	0.34	U	0.33	U	0.06	J	0.014	J	0.022	J
Hexachlorobenzene	0.33	0.33	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
Hexachlorobutadiene	NS	NS	0.067	U	0.068	U	0.069	U	0.067	U	0.073	U	0.074	U	0.073	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Hexachloroethane	NS	NS	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.031	J	0.033	U	0.034	U	0.033	U	0.25		0.044		0.078	
Isophorone	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
Naphthalene	12	100	0.33	U	0.33	U	0.34	U	0.33	U	0.027	J	0.37	U	0.0088	J
Nitrobenzene	0.08	1.8	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.27	U	0.29	U	0.29	U	0.29	U
Phenanthrene	**1.1**	4.9	0.046	J	0.33	U	0.34	U	0.33	U	1		0.21	J	0.31	J
Phenol	0.33	100	0.2	U	0.2	U	0.21	U	0.2	U	0.22	U	0.22	U	0.22	U
Pyrene	64	100	0.093	J	0.33	U	0.34	U	0.33	U	1		0.19	J	0.32	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-03_15-17_20260427	RI-SB-03_28-30_20260427	RI-SB-04_0-0.17_20260427	RI-SB-04_0-2_20260427	RI-SB-04_2-4_20260427	RI-SB-04_15-17_20260428	RI-SB-04_28-30_20260428
		Lab Sample ID	460-349775-28	460-349775-29	460-349775-18	460-349775-19	460-349775-20	460-349846-22	460-349846-21
		Sample Date	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2,4-Dinitrophenol	NS	NS	0.28 U	0.28 U	0.29 U	0.29 U	0.3 U	0.27 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.071 U	0.071 U	0.073 U	0.072 U	0.075 U	0.067 U	0.067 U
2,6-Dinitrotoluene	NS	NS	0.071 U	0.071 U	0.073 U	0.072 U	0.075 U	0.067 U	0.067 U
2-Chloronaphthalene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Chlorophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Methylnaphthalene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Methylphenol (O-Cresol)	0.33	100	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.2 U	0.2 U
2-Nitroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Nitrophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
3- And 4- Methylphenol (Total)	NS	NS	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.2 U	0.2 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
3-Nitroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.28 U	0.28 U	0.29 U	0.29 U	0.3 U	0.27 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Chloroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Nitroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Nitrophenol	NS	NS	0.71 U	0.71 U	0.73 U	0.72 U	0.75 U	0.67 U	0.67 U
Acenaphthene	20	100	0.35 U	0.35 U	0.36 U	0.36 U	0.029 J	0.33 U	0.33 U
Acenaphthylene	100	100	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Acetophenone	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Aniline	0.04	8.1	0.037 U	0.037 U	0.038 U	0.038 U	0.039 U	0.035 U	0.035 U
Anthracene	100	100	0.35 U	0.35 U	0.36 U	0.36 U	0.049 J	0.33 U	0.33 U
Atrazine	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
Benzaldehyde	NS	NS	0.35 UJ	0.35 UJ	0.36 UJ	0.36 UJ	0.37 UJ	0.33 U	0.33 U
Benzo(a)Anthracene	**1**	1.4	0.027 J	0.035 U	0.055	0.036 U	0.18	0.033 U	0.033 U
Benzo(a)Pyrene	**1**	1	0.017 J	0.035 U	0.045	0.036 U	0.15	0.033 U	0.033 U
Benzo(b)Fluoranthene	**1**	1.4	0.025 J	0.035 U	0.057	0.036 U	0.18	0.033 U	0.033 U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.012 J	0.35 U	0.029 J	0.36 U	0.092 J	0.33 U	0.33 U
Benzo(k)Fluoranthene	**0.8**	4.9	0.0066 J	0.035 U	0.026 J	0.036 U	0.071	0.033 U	0.033 U
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Caprolactam	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Carbazole	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.017 J	0.33 U	0.33 U
Chrysene	**1**	4.9	0.022 J	0.35 U	0.05 J	0.36 U	0.19 J	0.33 U	0.33 U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.035 U	0.035 U	0.036 U	0.036 U	0.022 J	0.033 U	0.033 U
Dibenzofuran	2.1	18	0.35 U	0.35 U	0.36 U	0.36 U	0.0081 J	0.33 U	0.33 U
Diethyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Dimethyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Fluoranthene	85	100	0.051 J	0.35 U	0.074 J	0.36 U	0.4	0.33 U	0.33 U
Fluorene	30	100	0.35 U	0.35 U	0.36 U	0.36 U	0.019 J	0.33 U	0.33 U
Hexachlorobenzene	0.33	0.33	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
Hexachlorobutadiene	NS	NS	0.071 U	0.071 U	0.073 U	0.072 U	0.075 U	0.067 U	0.067 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Hexachloroethane	NS	NS	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.035 U	0.035 U	0.034 J	0.036 U	0.088	0.033 U	0.033 U
Isophorone	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
Naphthalene	12	100	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Nitrobenzene	0.08	1.8	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Pentachlorophenol	0.8	1.3	0.28 U	0.28 U	0.29 U	0.29 U	0.3 U	0.27 U	0.27 U
Phenanthrene	**1.1**	4.9	0.051 J	0.35 U	0.026 J	0.36 U	0.3 J	0.33 U	0.33 U
Phenol	0.33	100	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.2 U	0.2 U
Pyrene	64	100	0.046 J	0.35 U	0.068 J	0.36 U	0.36 J	0.33 U	0.33 U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501		RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429	
		Lab Sample ID	460-350137-1		460-350137-2		460-350137-3		460-350792-1		460-350792-2		460-349933-1		460-349933-2	
		Sample Date	5/1/2026		5/1/2026		5/1/2026		5/11/2026		5/11/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.035	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.14	UJ	0.14	U	0.14	UJ	0.14	U	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	UJ	0.14	U	0.14	UJ	0.14	U	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	UJ	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.28	R	0.27	U	0.28	UJ	0.27	U	0.27	U	0.27	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.071	UJ	0.069	U	0.07	U	0.068	U	0.069	U	0.069	U	0.07	U
2,6-Dinitrotoluene	NS	NS	0.071	UJ	0.069	U	0.07	U	0.068	U	0.069	U	0.069	U	0.07	U
2-Chloronaphthalene	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
2-Chlorophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
2-Methylnaphthalene	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.015	J	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.21	UJ	0.21	U	0.21	UJ	0.2	U	0.2	U	0.21	U	0.21	U
2-Nitroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
2-Nitrophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.21	UJ	0.21	U	0.21	UJ	0.2	U	0.2	U	0.21	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.28	R	0.27	U	0.28	UJ	0.27	U	0.27	U	0.27	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
4-Chloroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
4-Nitroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Nitrophenol	NS	NS	0.71	UJ	0.69	U	0.7	UJ	0.68	U	0.69	U	0.69	U	0.7	U
Acenaphthene	20	100	0.022	JL	0.014	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Acenaphthylene	100	100	0.016	JL	0.014	J	0.0047	J	0.34	U	0.34	U	0.0052	J	0.34	U
Acetophenone	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Aniline	0.04	8.1	0.037	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U
Anthracene	100	100	0.065	JL	0.041	J	0.014	J	0.34	U	0.34	U	0.34	U	0.014	J
Atrazine	NS	NS	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.35	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.38	JL	0.17		0.066		0.034	U	0.034	U	0.053		0.079	
Benzo(a)Pyrene	**1**	1	0.37	JL	0.17		0.057		0.034	U	0.034	U	0.051	J	0.076	J
Benzo(b)Fluoranthene	**1**	1.4	0.48	JL	0.22		0.084		0.034	U	0.034	U	0.081		0.11	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.27	JL	0.57		0.048	J	0.34	U	0.34	U	0.031	J	0.053	J
Benzo(k)Fluoranthene	**0.8**	4.9	0.21	JL	0.086		0.029	J	0.034	U	0.034	U	0.027	J	0.034	J
Benzyl Butyl Phthalate	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	UJ	0.34	UJ
Caprolactam	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Carbazole	NS	NS	0.018	JL	0.014	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Chrysene	**1**	4.9	0.4	JL	0.17	J	0.062	J	0.34	U	0.34	U	0.062	J	0.085	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.062	JL	**0.37**		0.0083	J	0.034	U	0.034	U	0.0085	J	0.011	J
Dibenzofuran	2.1	18	0.0096	JL	0.0062	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Diethyl Phthalate	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Dimethyl Phthalate	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.35	U	0.34	U	0.019	J	0.34	U	0.34	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Fluoranthene	85	100	0.71	JL	0.31	J	0.11	J	0.34	U	0.34	U	0.086	J	0.14	J
Fluorene	30	100	0.016	JL	0.0097	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Hexachlorobenzene	0.33	0.33	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.071	UJ	0.069	U	0.07	U	0.068	U	0.069	U	0.069	U	0.07	U
Hexachlorocyclopentadiene	NS	NS	0.35	UJ	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.26	JL	0.38		0.041		0.034	U	0.034	U	0.03	J	0.052	
Isophorone	NS	NS	0.14	UJ	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.012	JL	0.0071	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Nitrobenzene	0.08	1.8	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.28	UJ	0.27	U	0.28	UJ	0.27	U	0.27	U	0.27	U	0.28	U
Phenanthrene	**1.1**	4.9	0.32	JL	0.16	J	0.071	J	0.34	U	0.34	U	0.042	J	0.065	J
Phenol	0.33	100	0.21	UJ	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.21	U
Pyrene	64	100	0.64	JL	0.28	J	0.11	J	0.34	U	0.34	U	0.075	J	0.13	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429		RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428	
		Lab Sample ID	460-349933-3		460-349933-4		460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.034	U	0.033	U	0.036	U	0.036	U	0.034	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	UJ	0.29	U	0.29	U	0.28	U	0.27	UJ
2,4-Dinitrotoluene	NS	NS	0.067	U	0.069	U	0.067	UJ	0.073	U	0.073	U	0.07	U	0.069	UJ
2,6-Dinitrotoluene	NS	NS	0.067	U	0.069	U	0.067	UJ	0.073	U	0.073	U	0.07	U	0.069	UJ
2-Chloronaphthalene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
2-Chlorophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
2-Methylnaphthalene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.021	J	0.36	U	0.34	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.2	UJ	0.22	U	0.22	U	0.21	U	0.2	UJ
2-Nitroaniline	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	UJ	0.34	UJ	0.34	UJ
2-Nitrophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.2	UJ	0.22	U	0.22	U	0.21	U	0.2	UJ
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.34	U	0.33	U	0.36	U	0.36	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	UJ	0.29	U	0.29	U	0.28	U	0.27	UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
4-Chloroaniline	NS	NS	0.33	U	0.34	U	0.33	U	0.36	U	0.36	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
4-Nitroaniline	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
4-Nitrophenol	NS	NS	0.67	U	0.69	U	0.67	UJ	0.73	UJ	0.73	UJ	0.7	UJ	0.69	UJ
Acenaphthene	20	100	0.33	U	0.34	U	0.33	UJ	0.023	J	0.012	J	0.34	U	0.34	UJ
Acenaphthylene	100	100	0.33	U	0.34	U	0.33	UJ	0.03	J	0.04	J	0.34	U	0.34	UJ
Acetophenone	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Aniline	0.04	8.1	0.035	U	0.036	U	0.035	UJ	0.038	U	0.038	U	0.037	U	0.036	U
Anthracene	100	100	0.33	U	0.34	U	0.33	UJ	0.16	J	0.058	J	0.34	U	0.34	UJ
Atrazine	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.34	UJ	0.33	UJ	0.36	UJ	0.36	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.033	U	0.034	U	0.033	UJ	**1.1**		0.53		0.034	U	0.02	JL
Benzo(a)Pyrene	**1**	1	0.033	UJ	0.034	UJ	0.033	UJ	1		0.54		0.034	U	0.013	JL
Benzo(b)Fluoranthene	**1**	1.4	0.033	U	0.034	U	0.033	UJ	**1.5**		0.67		0.034	U	0.017	JL
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	U	0.34	U	0.33	UJ	0.45		0.37		0.34	U	0.34	UJ
Benzo(k)Fluoranthene	**0.8**	4.9	0.033	UJ	0.034	UJ	0.033	UJ	0.55		0.24		0.034	U	0.0067	JL
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.34	U	0.33	UJ	0.0077	J	0.36	U	0.34	U	0.34	UJ
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Caprolactam	NS	NS	0.33	U	0.34	U	0.33	U	0.36	U	0.36	U	0.34	U	0.34	U
Carbazole	NS	NS	0.33	U	0.34	U	0.33	UJ	0.028	J	0.015	J	0.34	U	0.34	UJ
Chrysene	**1**	4.9	0.33	U	0.34	U	0.33	UJ	1		0.57		0.34	U	0.015	JL
Dibenz(a,h)Anthracene	**0.33**	0.33	0.033	U	0.034	U	0.033	UJ	0.12		0.09		0.034	U	0.034	UJ
Dibenzofuran	2.1	18	0.33	U	0.34	U	0.33	UJ	0.022	J	0.006	J	0.34	U	0.34	U
Diethyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Dimethyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Fluoranthene	85	100	0.33	U	0.34	U	0.33	UJ	1.6		0.76		0.34	U	0.024	JL
Fluorene	30	100	0.33	U	0.34	U	0.33	UJ	0.016	J	0.011	J	0.34	U	0.34	UJ
Hexachlorobenzene	0.33	0.33	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.067	U	0.069	U	0.067	UJ	0.073	U	0.073	U	0.07	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.033	U	0.034	U	0.033	UJ	0.5		0.37		0.034	U	0.034	UJ
Isophorone	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	UJ
Naphthalene	12	100	0.33	U	0.34	U	0.33	UJ	0.035	J	0.011	J	0.34	U	0.34	UJ
Nitrobenzene	0.08	1.8	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	UJ	0.29	U	0.29	U	0.28	U	0.27	U
Phenanthrene	**1.1**	4.9	0.33	U	0.34	U	0.33	UJ	0.58		0.23	J	0.34	U	0.016	JL
Phenol	0.33	100	0.2	U	0.21	U	0.2	UJ	0.22	U	0.22	U	0.21	U	0.2	UJ
Pyrene	64	100	0.33	U	0.34	U	0.33	UJ	1.4		0.91		0.34	U	0.03	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-07_33-35_20260428		RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-5		460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	UJ	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	UJ	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.28	U	0.28	U	0.28	U	0.28	U	0.27	UJ	0.27	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.07	U	0.07	U	0.07	U	0.068	UJ	0.068	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.07	U	0.07	U	0.07	U	0.068	UJ	0.068	U
2-Chloronaphthalene	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2-Chlorophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2-Methylnaphthalene	NS	NS	0.33	U	0.34	U	0.052	J	0.046	J	0.068	J	0.34	UJ	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	UJ	0.2	U
2-Nitroaniline	NS	NS	0.33	UJ	0.34	UJ	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	UJ
2-Nitrophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	UJ	0.2	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.28	U	0.28	U	0.28	U	0.28	U	0.27	UJ	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Chloroaniline	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Nitroaniline	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Nitrophenol	NS	NS	0.67	UJ	0.7	UJ	0.7	U	0.7	U	0.7	U	0.68	UJ	0.68	UJ
Acenaphthene	20	100	0.33	U	0.34	U	0.011	J	0.05	J	0.11	J	0.34	UJ	0.34	U
Acenaphthylene	100	100	0.33	U	0.34	U	0.008	J	0.037	J	0.075	J	0.34	UJ	0.34	U
Acetophenone	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Aniline	0.04	8.1	0.035	U	0.037	U	0.036	U	0.037	U	0.037	U	0.036	U	0.036	U
Anthracene	100	100	0.33	U	0.34	U	0.032	J	0.14	J	0.3	J	0.34	UJ	0.34	U
Atrazine	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.35	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.033	U	0.032	J	0.12		0.44		0.84		0.012	JL	0.034	U
Benzo(a)Pyrene	**1**	1	0.033	U	0.024	J	0.1		0.37		0.74		0.034	UJ	0.034	U
Benzo(b)Fluoranthene	**1**	1.4	0.033	U	0.034		0.15		0.47		0.92		0.0078	JL	0.034	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	U	0.019	J	0.064	J	0.25	J	0.5		0.34	U	0.34	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.033	U	0.012	J	0.047		0.16		0.34		0.0085	JL	0.034	U
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.34	U	0.0079	J	0.012	J	0.022	J	0.34	UJ	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	UJ
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.023	J	0.35	U	0.34	UJ	0.34	U
Caprolactam	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	UJ
Carbazole	NS	NS	0.33	U	0.34	U	0.34	U	0.049	J	0.11	J	0.34	UJ	0.34	U
Chrysene	**1**	4.9	0.33	U	0.031	J	0.15	J	0.43		0.88		0.0083	JL	0.34	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.033	U	0.034	U	0.016	J	0.058		0.13		0.034	UJ	0.034	U
Dibenzofuran	2.1	18	0.33	U	0.34	U	0.0098	J	0.053	J	0.12	J	0.34	UJ	0.34	U
Diethyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Dimethyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Fluoranthene	85	100	0.33	U	0.057	J	0.23	J	0.92		1.9		0.34	UJ	0.34	U
Fluorene	30	100	0.33	U	0.34	U	0.014	J	0.086	J	0.19	J	0.34	UJ	0.34	U
Hexachlorobenzene	0.33	0.33	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.067	U	0.07	U	0.07	U	0.07	U	0.07	U	0.068	UJ	0.068	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.033	U	0.034	U	0.062		0.24		0.48		0.034	U	0.034	U
Isophorone	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	UJ	0.14	U
Naphthalene	12	100	0.33	U	0.34	U	0.02	J	0.065	J	0.11	J	0.34	UJ	0.34	U
Nitrobenzene	0.08	1.8	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.28	U	0.28	U	0.28	U	0.28	U	0.27	UJ	0.27	U
Phenanthrene	**1.1**	4.9	0.0079	J	0.039	J	0.14	J	0.85		**1.8**		0.34	UJ	0.34	U
Phenol	0.33	100	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	UJ	0.2	U
Pyrene	64	100	0.33	U	0.065	J	0.18	J	0.89		1.9		0.009	JL	0.34	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427		RI-SB-09_12-14_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6		460-349775-7	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2,4,5-Trichlorophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.069	U	0.068	U	0.068	U	0.068	U	0.067	U	0.068	U	0.071	U
2,6-Dinitrotoluene	NS	NS	0.069	U	0.068	U	0.068	U	0.068	U	0.067	U	0.068	U	0.071	U
2-Chloronaphthalene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Chlorophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Methylnaphthalene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U
2-Nitroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Nitrophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
3-Nitroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Chloro-3-Methylphenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Chloroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Methylphenol (P-Cresol)	0.33	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Nitroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Nitrophenol	NS	NS	0.69	U	0.68	U	0.68	U	0.68	U	0.67	U	0.68	U	0.71	U
Acenaphthene	20	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Acenaphthylene	100	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Acetophenone	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Aniline	0.04	8.1	0.036	U	0.036	U	0.035	U	0.036	U	0.035	U	0.035	U	0.037	U
Anthracene	100	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Atrazine	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
Benzaldehyde	NS	NS	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ	0.33	UJ	0.33	UJ	0.35	UJ
Benzo(a)Anthracene	**1**	1.4	0.024	J	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Benzo(a)Pyrene	**1**	1	0.015	J	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Benzo(b)Fluoranthene	**1**	1.4	0.018	J	0.034	U	0.01	J	0.034	U	0.033	U	0.033	U	0.035	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.0085	J	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Benzyl Butyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Biphenyl (Diphenyl)	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Caprolactam	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Carbazole	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Chrysene	**1**	4.9	0.02	J	0.34	U	0.0077	J	0.34	U	0.33	U	0.33	U	0.35	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Dibenzofuran	2.1	18	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Diethyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Dimethyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Di-N-Butyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Di-N-Octylphthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Fluoranthene	85	100	0.034	J	0.34	U	0.019	J	0.34	U	0.33	U	0.33	U	0.35	U
Fluorene	30	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Hexachlorobenzene	0.33	0.33	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Hexachlorobutadiene	NS	NS	0.069	U	0.068	U	0.068	U	0.068	U	0.067	U	0.068	U	0.071	U
Hexachlorocyclopentadiene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Hexachloroethane	NS	NS	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Isophorone	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
Naphthalene	12	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Nitrobenzene	0.08	1.8	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
N-Nitrosodi-N-Propylamine	NS	NS	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
N-Nitrosodiphenylamine	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U
Phenanthrene	**1.1**	4.9	0.029	J	0.34	U	0.012	J	0.34	U	0.33	U	0.33	U	0.35	U
Phenol	0.33	100	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U
Pyrene	64	100	0.035	J	0.34	U	0.016	J	0.34	U	0.33	U	0.33	U	0.35	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427		RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427	
		Lab Sample ID	460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12		460-349775-13		460-349775-14	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2,4-Dinitrophenol	NS	NS	0.29	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.073	U	0.067	U	0.067	U	0.067	U	0.07	U	0.069	U	0.07	U
2,6-Dinitrotoluene	NS	NS	0.073	U	0.067	U	0.067	U	0.067	U	0.07	U	0.069	U	0.07	U
2-Chloronaphthalene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Chlorophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Methylnaphthalene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.22	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	0.21	U
2-Nitroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Nitrophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.22	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Chloroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Nitroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Nitrophenol	NS	NS	0.73	U	0.67	U	0.67	U	0.67	U	0.7	U	0.69	U	0.7	U
Acenaphthene	20	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Acenaphthylene	100	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Acetophenone	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Aniline	0.04	8.1	0.038	U	0.035	U	0.035	U	0.035	U	0.036	U	0.036	U	0.036	U
Anthracene	100	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Atrazine	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.36	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.34	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzo(a)Pyrene	**1**	1	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzo(b)Fluoranthene	**1**	1.4	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzyl Butyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Caprolactam	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Carbazole	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Chrysene	**1**	4.9	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Dibenzofuran	2.1	18	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Diethyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Dimethyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Fluoranthene	85	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Fluorene	30	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Hexachlorobenzene	0.33	0.33	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.073	U	0.067	U	0.067	U	0.067	U	0.07	U	0.069	U	0.07	U
Hexachlorocyclopentadiene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Isophorone	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Nitrobenzene	0.08	1.8	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.29	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.28	U
Phenanthrene	**1.1**	4.9	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.0099	J	0.34	U
Phenol	0.33	100	0.22	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	0.21	U
Pyrene	64	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.0094	J	0.34	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427		RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427	
		Lab Sample ID	460-349775-15		460-349775-16		460-349775-17		460-349775-21		460-349775-22		460-349775-23		460-349775-24	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		5		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.034	U	0.035	U	0.035	U	0.17	U	0.036	U	0.035	U	0.035	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2,4,5-Trichlorophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.14	U	0.14	U	0.7	UJ	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.14	U	0.14	U	0.7	UJ	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.34	U	0.35	UJ	0.35	UJ	1.7	UJ	0.36	U	0.35	U	0.35	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.28	U	0.28	U	1.4	UJ	0.29	U	0.29	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.069	U	0.072	U	0.071	U	0.35	UJ	0.073	U	0.072	U	0.072	U
2,6-Dinitrotoluene	NS	NS	0.069	U	0.072	U	0.071	U	0.35	UJ	0.073	U	0.072	U	0.072	U
2-Chloronaphthalene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2-Chlorophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2-Methylnaphthalene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.21	U	1.1	UJ	0.22	U	0.21	U	0.21	U
2-Nitroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2-Nitrophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.21	U	1.1	UJ	0.22	U	0.21	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.14	U	0.14	U	0.7	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.28	U	0.28	U	1.4	UJ	0.29	U	0.29	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Chloro-3-Methylphenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Chloroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Methylphenol (P-Cresol)	0.33	100	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Nitroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Nitrophenol	NS	NS	0.69	U	0.72	U	0.71	U	3.5	UJ	0.73	U	0.72	U	0.72	U
Acenaphthene	20	100	0.34	U	0.35	U	0.35	U	0.42	JL	0.06	J	0.35	U	0.35	U
Acenaphthylene	100	100	0.34	U	0.35	U	0.35	U	0.53	JL	0.044	J	0.35	U	0.35	U
Acetophenone	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Aniline	0.04	8.1	0.036	U	0.037	U	0.037	U	0.18	U	0.038	U	0.038	U	0.037	U
Anthracene	100	100	0.34	U	0.35	U	0.35	U	1.5	JL	0.16	J	0.35	U	0.35	U
Atrazine	NS	NS	0.14	U	0.14	U	0.14	U	0.7	U	0.14	UJ	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.34	UJ	0.35	UJ	0.35	UJ	1.7	UJ	0.36	UJ	0.35	UJ	0.35	UJ
Benzo(a)Anthracene	**1**	1.4	0.034	U	0.035	U	0.035	U	**5.2**		0.61		0.035	U	0.035	U
Benzo(a)Pyrene	**1**	1	0.034	U	0.035	U	0.035	U	**4.9**		0.53		0.035	U	0.035	U
Benzo(b)Fluoranthene	**1**	1.4	0.034	U	0.035	U	0.035	U	**6.9**		0.68		0.035	U	0.035	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.34	U	0.35	U	0.35	U	**2.6**		0.3	J	0.35	U	0.35	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.034	U	0.035	U	0.035	U	**2.4**		0.23		0.035	U	0.035	U
Benzyl Butyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Biphenyl (Diphenyl)	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Caprolactam	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
Carbazole	NS	NS	0.34	U	0.35	U	0.35	U	0.69	JL	0.068	J	0.35	U	0.35	U
Chrysene	**1**	4.9	0.34	U	0.35	U	0.35	U	**5.1**		0.68		0.35	U	0.35	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.034	U	0.035	U	0.035	U	**0.64**	**JL**	0.077		0.035	U	0.035	U
Dibenzofuran	2.1	18	0.34	U	0.35	U	0.35	U	0.21	JL	0.021	J	0.35	U	0.35	U
Diethyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Dimethyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Di-N-Butyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Di-N-Octylphthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Fluoranthene	85	100	0.34	U	0.35	U	0.35	U	12		1.3		0.35	U	0.35	U
Fluorene	30	100	0.34	U	0.35	U	0.35	U	0.4	JL	0.054	J	0.35	U	0.35	U
Hexachlorobenzene	0.33	0.33	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
Hexachlorobutadiene	NS	NS	0.069	U	0.072	U	0.071	U	0.35	U	0.073	U	0.072	U	0.072	U
Hexachlorocyclopentadiene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Hexachloroethane	NS	NS	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	U	0.035	U	0.035	U	**2.9**		0.34		0.035	U	0.035	U
Isophorone	NS	NS	0.14	U	0.14	U	0.14	U	0.7	UJ	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.34	U	0.35	U	0.35	U	0.11	JL	0.011	J	0.35	U	0.35	U
Nitrobenzene	0.08	1.8	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
N-Nitrosodi-N-Propylamine	NS	NS	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
N-Nitrosodiphenylamine	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Pentachlorophenol	0.8	1.3	0.27	U	0.28	U	0.28	U	1.4	U	0.29	U	0.29	U	0.28	U
Phenanthrene	**1.1**	4.9	0.34	U	0.35	U	0.35	U	**6.6**		0.99		0.35	U	0.35	U
Phenol	0.33	100	0.2	U	0.21	U	0.21	U	1.1	UJ	0.22	U	0.21	U	0.21	U
Pyrene	64	100	0.34	U	0.35	U	0.35	U	8.9		1.2		0.35	U	0.35	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-11_0-0.17_20260428	RI-SB-11_0-2_20260428	RI-SB-11_2-4_20260428	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428	RI-SB-12_4-6_20260428
		Lab Sample ID	460-349846-6	460-349846-7	460-349846-8	460-349846-9		460-349846-10	460-349846-11
		Sample Date	4/28/2026	4/28/2026	4/28/2026	4/28/2026		4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	5	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
2,4-Dichlorophenol	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
2,4-Dimethylphenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2,4-Dinitrophenol	NS	NS	0.27 U	0.27 U	0.27 U	0.28 U	NR	0.28 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.068 U	0.068 U	0.069 U	0.071 U	NR	0.071 U	0.068 U
2,6-Dinitrotoluene	NS	NS	0.068 U	0.068 U	0.069 U	0.071 U	NR	0.071 U	0.068 U
2-Chloronaphthalene	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2-Chlorophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2-Methylnaphthalene	NS	NS	0.013 J	0.34 U	0.34 U	0.084 J	NR	0.35 U	0.34 U
2-Methylphenol (O-Cresol)	0.33	100	0.2 U	0.2 U	0.21 U	0.21 U	NR	0.21 U	0.2 U
2-Nitroaniline	NS	NS	0.33 UJ	0.34 UJ	0.34 UJ	0.35 UJ	NR	0.35 UJ	0.34 UJ
2-Nitrophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.2 U	0.2 U	0.21 U	0.21 U	NR	0.21 U	0.2 U
3,3'-Dichlorobenzidine	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
3-Nitroaniline	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27 U	0.27 U	0.27 U	0.28 U	NR	0.28 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.33 U	0.34 U	0.34 UJ	0.35 U	NR	0.35 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Chloroaniline	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Nitroaniline	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Nitrophenol	NS	NS	0.68 UJ	0.68 UJ	0.69 U	0.71 UJ	NR	0.71 UJ	0.68 UJ
Acenaphthene	20	100	0.048 J	0.34 U	0.34 U	0.55	NR	0.35 U	0.34 U
Acenaphthylene	100	100	0.018 J	0.01 J	0.34 U	0.35	NR	0.35 U	0.34 U
Acetophenone	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Aniline	0.04	8.1	0.035 U	0.036 U	0.036 U	0.037 U	NR	0.037 U	0.036 U
Anthracene	100	100	0.13 J	0.02 J	0.34 U	1.5	NR	0.017 J	0.34 U
Atrazine	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
Benzaldehyde	NS	NS	0.33 UJ	0.34 UJ	0.34 UJ	0.35 UJ	NR	0.35 UJ	0.34 UJ
Benzo(a)Anthracene	**1**	1.4	0.48	0.16	0.012 J	**5.1**	NR	0.084	0.034 U
Benzo(a)Pyrene	**1**	1	0.45	0.17	0.007 J	**4.4**	NR	0.075	0.034 U
Benzo(b)Fluoranthene	**1**	1.4	0.59	0.22	0.0098 J	**5.7**	NR	0.11	0.034 U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	0.14 J	0.34 U	**2.6**	NR	0.051 J	0.34 U
Benzo(k)Fluoranthene	**0.8**	4.9	0.21	0.081	0.034 U	**2**	NR	0.042	0.034 U
Benzyl Butyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.33 U	0.34 U	0.34 U	0.026 J	NR	0.35 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.14 J	NR	0.35 U	0.34 U
Caprolactam	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Carbazole	NS	NS	0.06 J	0.34 U	0.34 U	0.54	NR	0.35 U	0.34 U
Chrysene	**1**	4.9	0.5	0.15 J	0.0072 J	**5.3**	NR	0.085 J	0.34 U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.081	0.031 J	0.034 U	**0.76**	NR	0.011 J	0.034 U
Dibenzofuran	2.1	18	0.026 J	0.34 U	0.34 U	0.21 J	NR	0.35 U	0.34 U
Diethyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Dimethyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Di-N-Octylphthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Fluoranthene	85	100	0.95	0.26 J	0.013 J	NR	10 D	0.16 J	0.34 U
Fluorene	30	100	0.04 J	0.34 U	0.34 U	0.45	NR	0.35 U	0.34 U
Hexachlorobenzene	0.33	0.33	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
Hexachlorobutadiene	NS	NS	0.068 U	0.068 U	0.069 U	0.071 U	NR	0.071 U	0.068 U
Hexachlorocyclopentadiene	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Hexachloroethane	NS	NS	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.34	0.14	0.034 U	**3**	NR	0.051	0.034 U
Isophorone	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
Naphthalene	12	100	0.014 J	0.34 U	0.34 U	0.13 J	NR	0.35 U	0.34 U
Nitrobenzene	0.08	1.8	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Pentachlorophenol	0.8	1.3	0.27 U	0.27 U	0.27 U	0.28 U	NR	0.28 U	0.27 U
Phenanthrene	**1.1**	4.9	0.7	0.093 J	0.0074 J	**6.5**	NR	0.082 J	0.34 U
Phenol	0.33	100	0.2 U	0.2 U	0.21 U	0.21 U	NR	0.21 U	0.2 U
Pyrene	64	100	0.98	0.28 J	0.014 J	NR	9.3 D	0.16 J	0.34 U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-12_6-8_20260428	RI-SB-12_8-10_20260428	RI-SB-13_0-0.17_20260428	RI-SB-13_0-2_20260428	RI-SB-13_2-4_20260428	RI-SB-13_4-6_20260428	RI-SB-14_0-0.17_20260429
		Lab Sample ID	460-349846-12	460-349846-13	460-349846-14	460-349846-15	460-349846-16	460-349846-17	460-349933-6
		Sample Date	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/29/2026
		Dilution Factor	1	1	1	1	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2,4,5-Trichlorophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 R
2,4-Dichlorophenol	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 R
2,4-Dimethylphenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 R
2,4-Dinitrotoluene	NS	NS	0.072 U	0.074 U	0.067 U	0.067 U	0.067 U	0.067 U	0.068 U
2,6-Dinitrotoluene	NS	NS	0.072 U	0.074 U	0.067 U	0.067 U	0.067 U	0.067 U	0.068 U
2-Chloronaphthalene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
2-Chlorophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2-Methylnaphthalene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.025 J	0.33 U	0.018 J
2-Methylphenol (O-Cresol)	0.33	100	0.22 U	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 R
2-Nitroaniline	NS	NS	0.36 UJ	0.36 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.34 U
2-Nitrophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
3- And 4- Methylphenol (Total)	NS	NS	0.22 U	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 R
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U
3-Nitroaniline	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 R
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
4-Chloroaniline	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
4-Nitroaniline	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Nitrophenol	NS	NS	0.72 UJ	0.74 UJ	0.67 UJ	0.67 UJ	0.67 UJ	0.67 UJ	0.68 R
Acenaphthene	20	100	0.36 U	0.36 U	0.016 J	0.33 U	0.048 J	0.33 U	0.34 U
Acenaphthylene	100	100	0.36 U	0.36 U	0.33 U	0.33 U	0.01 J	0.33 U	0.01 J
Acetophenone	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aniline	0.04	8.1	0.038 U	0.039 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
Anthracene	100	100	0.36 U	0.36 U	0.026 J	0.33 U	0.15 J	0.33 U	0.029 J
Atrazine	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U
Benzaldehyde	NS	NS	0.36 UJ	0.36 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.34 UJ
Benzo(a)Anthracene	**1**	1.4	0.0078 J	0.036 U	0.084	0.029 J	0.29	0.033 U	0.17
Benzo(a)Pyrene	**1**	1	0.036 U	0.036 U	0.074	0.028 J	0.22	0.033 U	0.14 J
Benzo(b)Fluoranthene	**1**	1.4	0.036 U	0.036 U	0.1	0.039	0.29	0.033 U	0.25
Benzo(g,h,i)Perylene	**0.64**	4.9	0.36 U	0.36 U	0.041 J	0.019 J	0.087 J	0.33 U	0.076 J
Benzo(k)Fluoranthene	**0.8**	4.9	0.036 U	0.036 U	0.036	0.013 J	0.11	0.033 U	0.075 J
Benzyl Butyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.005 J	0.33 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.033 J
Caprolactam	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Carbazole	NS	NS	0.36 U	0.36 U	0.015 J	0.33 U	0.067 J	0.33 U	0.014 J
Chrysene	**1**	4.9	0.36 U	0.36 U	0.086 J	0.041 J	0.27 J	0.33 U	0.2 J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.036 U	0.036 U	0.012 J	0.033 U	0.027 J	0.033 U	0.015 J
Dibenzofuran	2.1	18	0.36 U	0.36 U	0.0066 J	0.33 U	0.043 J	0.33 U	0.015 J
Diethyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Dimethyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Di-N-Octylphthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Fluoranthene	85	100	0.36 U	0.36 U	0.16 J	0.05 J	0.65	0.33 U	0.32 J
Fluorene	30	100	0.36 U	0.36 U	0.013 J	0.33 U	0.046 J	0.33 U	0.34 U
Hexachlorobenzene	0.33	0.33	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
Hexachlorobutadiene	NS	NS	0.072 U	0.074 U	0.067 U	0.067 U	0.067 U	0.067 U	0.068 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Hexachloroethane	NS	NS	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.036 U	0.036 U	0.049	0.033 U	0.1	0.033 U	0.074
Isophorone	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U
Naphthalene	12	100	0.36 U	0.36 U	0.0077 J	0.33 U	0.031 J	0.33 U	0.019 J
Nitrobenzene	0.08	1.8	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Pentachlorophenol	0.8	1.3	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 R
Phenanthrene	**1.1**	4.9	0.36 U	0.36 U	0.12 J	0.034 J	0.73	0.0082 J	0.13 J
Phenol	0.33	100	0.22 U	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pyrene	64	100	0.36 U	0.36 U	0.14 J	0.046 J	0.57	0.33 U	0.32 J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429		RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429	
		Lab Sample ID	460-349933-7		460-349933-8		460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	UJ	0.33	UJ	0.33	UJ	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.27	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.068	U	0.067	U	0.067	U	0.07	U	0.068	U	0.068	U	0.068	U
2,6-Dinitrotoluene	NS	NS	0.068	U	0.067	U	0.067	U	0.07	U	0.068	U	0.068	U	0.068	U
2-Chloronaphthalene	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Chlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Methylnaphthalene	NS	NS	0.032	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
2-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Nitrophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.27	U	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	UJ	0.34	U	0.34	U	0.33	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Chloroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Nitrophenol	NS	NS	0.68	U	0.67	U	0.67	U	0.7	U	0.68	U	0.68	U	0.68	U
Acenaphthene	20	100	0.018	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Acenaphthylene	100	100	0.018	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Acetophenone	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Aniline	0.04	8.1	0.035	U	0.035	U	0.035	U	0.036	U	0.036	U	0.035	U	0.036	U
Anthracene	100	100	0.059	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Atrazine	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.33	UJ	0.33	U	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.31		0.033	U	0.033	U	0.068		0.034	U	0.03	J	0.013	J
Benzo(a)Pyrene	**1**	1	0.3	J	0.033	UJ	0.033	UJ	0.067	J	0.034	UJ	0.026	J	0.0069	J
Benzo(b)Fluoranthene	**1**	1.4	0.42		0.033	U	0.033	U	0.095		0.034	U	0.034		0.0099	J
Benzo(g,h,i)Perylene	**0.64**	4.9	0.22	J	0.33	U	0.33	U	0.046	J	0.34	U	0.017	J	0.34	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.16	J	0.033	UJ	0.033	UJ	0.033	J	0.034	UJ	0.013	J	0.034	UJ
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.026	J	0.33	UJ	0.33	UJ	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ
Caprolactam	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Carbazole	NS	NS	0.034	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Chrysene	**1**	4.9	0.33		0.33	U	0.33	U	0.069	J	0.34	U	0.027	J	0.008	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.053		0.033	U	0.033	U	0.013	J	0.034	U	0.033	U	0.034	U
Dibenzofuran	2.1	18	0.017	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Diethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Dimethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Fluoranthene	85	100	0.55		0.33	U	0.33	U	0.1	J	0.34	U	0.041	J	0.34	U
Fluorene	30	100	0.013	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Hexachlorobenzene	0.33	0.33	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
Hexachlorobutadiene	NS	NS	0.068	U	0.067	U	0.067	U	0.07	U	0.068	U	0.068	U	0.068	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.23		0.033	U	0.033	U	0.045		0.034	U	0.033	U	0.034	U
Isophorone	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
Naphthalene	12	100	0.024	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Nitrobenzene	0.08	1.8	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.27	U	0.27	U
Phenanthrene	**1.1**	4.9	0.28	J	0.33	U	0.33	U	0.037	J	0.34	U	0.022	J	0.0076	J
Phenol	0.33	100	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Pyrene	64	100	0.51		0.33	U	0.33	U	0.099	J	0.34	U	0.042	J	0.012	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-DUP-03_20260429		RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-14		460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	5	U	5	U	5	U	5	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	10	U	10	U	10	U	10	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	3	U	3	U	3	U	3	U
2,4-Dichlorophenol	NS	NS	0.13	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	NS	NS	0.33	UJ	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrophenol	NS	NS	0.27	U	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrotoluene	NS	NS	0.067	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	NS	NS	0.067	U	2	U	2	U	2	U	2	U
2-Chloronaphthalene	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2-Chlorophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	10	U	10	U	10	U	10	U
2-Nitroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
2-Nitrophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	5	U	5	U	5	U	5	U
3-Nitroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	20	U	20	U	20	U	20	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	10	U	10	U	10	U	10	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
4-Chloroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	10	U	10	U	10	U	10	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	10	U	10	U	10	U	10	U
4-Nitroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
4-Nitrophenol	NS	NS	0.67	U	20	U	20	U	20	U	20	U
Acenaphthene	20	100	0.33	U	10	U	10	U	10	U	10	U
Acenaphthylene	100	100	0.33	U	10	U	10	U	10	U	10	U
Acetophenone	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Aniline	0.04	8.1	0.035	U	6	U	6	U	6	U	6	U
Anthracene	100	100	0.33	U	10	U	10	U	10	U	10	U
Atrazine	NS	NS	0.13	U	2	U	2	U	2	U	2	U
Benzaldehyde	NS	NS	0.33	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(a)Anthracene	**1**	1.4	0.033	U	1	U	1	U	1	U	1	U
Benzo(a)Pyrene	**1**	1	0.033	UJ	1	U	1	U	1	U	1	U
Benzo(b)Fluoranthene	**1**	1.4	0.033	U	2	U	2	U	2	U	2	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	U	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.033	UJ	1	U	1	U	1	U	1	U
Benzyl Butyl Phthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	1	U	1	U	1	U	1	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	UJ	2	U	2	U	2	UJ	2	U
Caprolactam	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Carbazole	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Chrysene	**1**	4.9	0.33	U	2	U	2	U	2	U	2	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.033	U	1	U	1	U	1	U	1	U
Dibenzofuran	2.1	18	0.33	U	10	U	10	U	10	U	10	U
Diethyl Phthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Dimethyl Phthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	10	UJ	10	U	10	U	10	UJ
Di-N-Octylphthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Fluoranthene	85	100	0.33	U	10	U	10	U	10	U	10	U
Fluorene	30	100	0.33	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	0.33	0.33	0.033	U	1	U	1	U	1	U	1	U
Hexachlorobutadiene	NS	NS	0.067	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Hexachloroethane	NS	NS	0.033	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.033	U	2	U	2	U	2	U	2	U
Isophorone	NS	NS	0.13	U	10	U	10	U	10	U	10	U
Naphthalene	12	100	0.33	U	2	U	2	U	2	U	2	U
Nitrobenzene	0.08	1.8	0.033	U	0.4	U	0.4	U	0.4	U	0.4	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	1	U	1	U	1	U	1	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Pentachlorophenol	0.8	1.3	0.27	U	20	U	20	U	20	U	20	U
Phenanthrene	**1.1**	4.9	0.33	U	10	U	10	U	10	U	10	U
Phenol	0.33	100	0.2	U	10	U	10	U	10	U	10	U
Pyrene	64	100	0.33	U	10	U	10	U	10	U	10	U

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003	SB-03_31-33_20221003	SB-04_0-2_20221003
		Lab Sample ID	460-266877-1		460-266877-2	460-266752-1	460-266752-2	460-266752-3	460-266752-4	460-266752-5
		Sample Date	10/5/2022		10/5/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
		Dilution Factor	1	5	1	1	1	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
2,4-Dichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
2,4-Dimethylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2,4-Dinitrophenol	NS	NS	0.29 UJ	NR	0.27 UJ	0.28 U	0.27 U	0.31 U	0.28 U	0.3 U
2,4-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U	0.071 U	0.075 U
2,6-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U	0.071 U	0.075 U
2-Chloronaphthalene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Chlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Methylnaphthalene	NS	NS	0.28 J	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Nitrophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
3- And 4- Methylphenol (Total)	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
3-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U	0.28 U	0.3 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Chloroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Nitrophenol	NS	NS	0.73 U	NR	0.68 U	0.72 U	0.69 U	0.79 U	0.71 U	0.75 U
Acenaphthene	20	100	0.84	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Acenaphthylene	100	100	0.22 J	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Acetophenone	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Anthracene	100	100	2.3	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.025 J
Atrazine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
Benzaldehyde	NS	NS	0.36 UJ	NR	0.34 UJ	0.35 UJ	0.34 UJ	0.39 UJ	0.35 UJ	0.37 UJ
Benzo(a)Anthracene	**1**	1.4	**6.5**	NR	0.034 U	0.031 J	0.034 U	0.049	0.035 U	0.092
Benzo(a)Pyrene	**1**	1	**5.3**	NR	0.034 U	0.025 J	0.034 U	0.041	0.035 U	0.08
Benzo(b)Fluoranthene	**1**	1.4	**7.1**	NR	0.034 U	0.033 J	0.034 U	0.057	0.035 U	0.11
Benzo(g,h,i)Perylene	**0.64**	4.9	**3.3**	NR	0.34 U	0.015 J	0.34 U	0.024 J	0.35 U	0.042 J
Benzo(k)Fluoranthene	**0.8**	4.9	**2.3**	NR	0.034 U	0.014 J	0.034 U	0.022 J	0.035 U	0.036 J
Benzyl Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Biphenyl (Diphenyl)	NS	NS	0.081 J	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.08 J
Caprolactam	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Carbazole	NS	NS	0.86	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Chrysene	**1**	4.9	**6**	NR	0.34 U	0.025 J	0.34 U	0.046 J	0.35 U	0.088 J
Dibenz(a,h)Anthracene	**0.33**	0.33	**0.95**	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Dibenzofuran	2.1	18	0.5	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Diethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Dimethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Di-N-Octylphthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Fluoranthene	85	100	NR	18 D	0.34 U	0.039 J	0.34 U	0.076 J	0.35 U	0.17 J
Fluorene	30	100	0.77	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Hexachlorobenzene	0.33	0.33	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Hexachlorobutadiene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U	0.071 U	0.075 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Hexachloroethane	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	**4.2**	NR	0.034 U	0.018 J	0.034 UJ	0.028 J	0.035 UJ	0.048 J
Isophorone	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
Naphthalene	12	100	0.37	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Nitrobenzene	0.08	1.8	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Pentachlorophenol	0.8	1.3	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U	0.28 U	0.3 U
Phenanthrene	**1.1**	4.9	NR	**16 D**	0.34 U	0.015 J	0.34 U	0.035 J	0.35 U	0.1 J
Phenol	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Pyrene	64	100	NR	17 D	0.34 U	0.039 J	0.34 U	0.075 J	0.35 U	0.17 J

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-04_32-34_20221003	SB-05_0-2_20221004		SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Lab Sample ID	460-317091-1	460-317091-2	460-266752-6	460-266826-1		460-266826-2	460-266826-3	460-266826-4
		Sample Date	12/11/2024	12/11/2024	10/3/2022	10/4/2022		10/4/2022	10/4/2022	10/4/2022
		Dilution Factor	1	1	1	1	10	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.27 U	0.29 U	NR	0.27 U	0.29 U	0.28 U
2,4-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.069 U	0.074 U	NR	0.069 U	0.073 U	0.069 U
2,6-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.069 U	0.074 U	NR	0.069 U	0.073 U	0.069 U
2-Chloronaphthalene	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2-Chlorophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2-Methylnaphthalene	NS	NS	0.35 U	0.35 U	0.34 U	0.28 J	NR	0.34 U	0.36 U	0.34 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2-Nitroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 UJ	NR	0.34 UJ	0.36 UJ	0.34 UJ
2-Nitrophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
3-Nitroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 UJ	0.27 U	0.29 UJ	NR	0.27 UJ	0.29 UJ	0.28 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Chloroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Nitroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Nitrophenol	NS	NS	0.72 U	0.72 U	0.69 U	0.74 U	NR	0.69 U	0.73 U	0.69 U
Acenaphthene	20	100	0.35 U	0.021 J	0.34 U	2.7	NR	0.03 J	0.36 U	0.34 U
Acenaphthylene	100	100	0.35 U	0.021 J	0.34 U	0.67	NR	0.037 J	0.01 J	0.34 U
Acetophenone	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Anthracene	100	100	0.014 J	0.065 J	0.34 U	6.5	NR	0.08 J	0.028 J	0.023 J
Atrazine	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
Benzaldehyde	NS	NS	0.35 U	0.35 UJ	0.34 UJ	0.37 UJ	NR	0.34 UJ	0.36 UJ	0.34 UJ
Benzo(a)Anthracene	**1**	1.4	0.081	0.32	0.034 U	NR	**25 D**	0.27	0.036 U	0.034 U
Benzo(a)Pyrene	**1**	1	0.074	0.32	0.034 U	NR	**23 D**	0.29	0.13	0.053
Benzo(b)Fluoranthene	**1**	1.4	0.097	0.41	0.034 U	NR	**29 D**	0.39	0.17	0.034 U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.06 J	0.2 J	0.34 U	**7.5**	NR	**1.3**	0.062 J	0.024 J
Benzo(k)Fluoranthene	**0.8**	4.9	0.045	0.15	0.034 U	**7.6**	NR	0.14	0.066	0.034 U
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.35 U	0.34 U	0.14 J	NR	0.34 U	0.36 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.046 J	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Caprolactam	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Carbazole	NS	NS	0.35 U	0.026 J	0.34 U	1.9	NR	0.023 J	0.36 U	0.34 U
Chrysene	**1**	4.9	0.079 J	0.34 J	0.34 U	NR	**23 D**	0.2 J	0.11 J	0.049 J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.035 U	0.045	0.034 U	**2.7**	NR	0.22	0.036 U	0.034 U
Dibenzofuran	2.1	18	0.35 U	0.35 U	0.34 U	1.2	NR	0.34 U	0.36 U	0.34 U
Diethyl Phthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Dimethyl Phthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.013 J	0.34 U	0.026 J	NR	0.34 U	0.36 U	0.34 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Fluoranthene	85	100	0.14 J	0.61	0.34 U	NR	48 D	0.46	0.22 J	0.1 J
Fluorene	30	100	0.35 U	0.017 J	0.34 U	2.5	NR	0.018 J	0.36 U	0.34 U
Hexachlorobenzene	0.33	0.33	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
Hexachlorobutadiene	NS	NS	0.072 U	0.072 U	0.069 U	0.074 U	NR	0.069 U	0.073 U	0.069 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Hexachloroethane	NS	NS	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.053	0.19	0.034 UJ	NR	**17 D**	**1.2**	0.14	0.071
Isophorone	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
Naphthalene	12	100	0.35 U	0.009 J	0.34 U	0.47	NR	0.0062 J	0.36 U	0.34 U
Nitrobenzene	0.08	1.8	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.35 U	0.34 U	0.056 J	NR	0.34 U	0.36 U	0.34 U
Pentachlorophenol	0.8	1.3	0.29 U	0.29 U	0.27 U	0.29 U	NR	0.27 U	0.29 U	0.28 U
Phenanthrene	**1.1**	4.9	0.068 J	0.32 J	0.34 U	NR	**27 D**	0.18 J	0.12 J	0.076 J
Phenol	0.33	100	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Pyrene	64	100	0.13 J	0.6	0.34 U	NR	38 D	0.39	0.21 J	0.1 J

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213		SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212		SB-09_10-12_20241212	
		Lab Sample ID	460-266752-7		460-266752-8		460-317270-1		460-317270-2		460-317270-3		460-317182-1		460-317182-2		460-317182-3	
		Sample Date	10/3/2022		10/3/2022		12/13/2024		12/13/2024		12/13/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2,4,5-Trichlorophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2,4,6-Trichlorophenol	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
2,4-Dichlorophenol	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
2,4-Dimethylphenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2,4-Dinitrophenol	NS	NS	0.3	U	0.27	U	0.27	UJ	0.27	UJ	0.27	UJ	0.27	U	0.27	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.076	U	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
2,6-Dinitrotoluene	NS	NS	0.076	U	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
2-Chloronaphthalene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Chlorophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Methylnaphthalene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Methylphenol (O-Cresol)	0.33	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Nitroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Nitrophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
3- And 4- Methylphenol (Total)	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
3,3'-Dichlorobenzidine	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
3-Nitroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.3	U	0.27	U	0.27	UJ	0.27	UJ	0.27	UJ	0.27	U	0.27	U	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Chloro-3-Methylphenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Chloroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Methylphenol (P-Cresol)	0.33	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Nitroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Nitrophenol	NS	NS	0.76	U	0.69	U	0.67	UJ	0.67	UJ	0.67	UJ	0.67	U	0.67	U	0.67	U
Acenaphthene	20	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Acenaphthylene	100	100	0.37	U	0.34	U	0.016	J	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Acetophenone	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Anthracene	100	100	0.37	U	0.34	U	0.028	J	0.011	J	0.33	U	0.013	J	0.33	U	0.33	U
Atrazine	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Benzaldehyde	NS	NS	0.37	UJ	0.34	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ
Benzo(a)Anthracene	**1**	1.4	0.061		0.034	U	0.17		0.074		0.033	U	0.091		0.033	U	0.033	U
Benzo(a)Pyrene	**1**	1	0.056		0.034	U	0.16		0.08		0.033	U	0.096		0.033	U	0.033	U
Benzo(b)Fluoranthene	**1**	1.4	0.083		0.034	U	0.21		0.11		0.033	U	0.13		0.033	U	0.033	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.029	J	0.34	U	0.12	J	0.059	J	0.33	U	0.067	J	0.33	U	0.33	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.035	J	0.034	U	0.082		0.04		0.033	U	0.044		0.033	U	0.033	U
Benzyl Butyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Biphenyl (Diphenyl)	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.022	J	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Caprolactam	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Carbazole	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Chrysene	**1**	4.9	0.062	J	0.34	U	0.18	J	0.076	J	0.33	U	0.099	J	0.33	U	0.33	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.037	U	0.034	U	0.033		0.015	J	0.033	U	0.017	J	0.033	U	0.033	U
Dibenzofuran	2.1	18	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Diethyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Dimethyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Di-N-Butyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Di-N-Octylphthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Fluoranthene	85	100	0.094	J	0.34	U	0.23	J	0.11	J	0.33	U	0.15	J	0.33	U	0.33	U
Fluorene	30	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Hexachlorobenzene	0.33	0.33	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Hexachlorobutadiene	NS	NS	0.076	U	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
Hexachlorocyclopentadiene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Hexachloroethane	NS	NS	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	J	0.034	UJ	0.11		0.055		0.033	U	0.064		0.033	U	0.033	U
Isophorone	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Naphthalene	12	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Nitrobenzene	0.08	1.8	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
N-Nitrosodi-N-Propylamine	NS	NS	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
N-Nitrosodiphenylamine	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Pentachlorophenol	0.8	1.3	0.3	U	0.27	U	0.27	UJ	0.27	UJ	0.27	UJ	0.27	U	0.27	U	0.27	U
Phenanthrene	**1.1**	4.9	0.039	J	0.34	U	0.11	J	0.052	J	0.33	U	0.065	J	0.33	U	0.33	U
Phenol	0.33	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Pyrene	64	100	0.093	J	0.34	U	0.27	J	0.11	J	0.33	U	0.14	J	0.33	U	0.33	U

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-10_0-2_20241212		SB-10_2-4_20241212		SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-4		460-317182-5		460-317182-6		460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
2-Chloronaphthalene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Chlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Methylnaphthalene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.034	J	0.33	U	0.35	U	0.33	U
2-Methylphenol (O-Cresol)	0.33	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Nitrophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
3- And 4- Methylphenol (Total)	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
3-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	UJ	0.27	UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Chloroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Nitrophenol	NS	NS	0.67	U	0.68	U	0.67	U	0.67	U	0.67	U	0.67	U	0.7	U	0.68	U
Acenaphthene	20	100	0.0097	J	0.0097	J	0.33	U	0.017	J	0.29	J	0.33	U	0.35	U	0.33	U
Acenaphthylene	100	100	0.012	J	0.051	J	0.33	U	0.33	U	0.021	J	0.33	U	0.01	J	0.33	U
Acetophenone	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Anthracene	100	100	0.034	J	0.086	J	0.33	U	0.028	J	0.35		0.33	U	0.019	J	0.33	U
Atrazine	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
Benzaldehyde	NS	NS	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.35	UJ	0.33	UJ
Benzo(a)Anthracene	**1**	1.4	0.19		0.61		0.033	U	0.075		0.87		0.033	U	0.12		0.033	U
Benzo(a)Pyrene	**1**	1	0.21		0.6		0.033	U	0.066		0.84		0.033	U	0.13		0.033	U
Benzo(b)Fluoranthene	**1**	1.4	0.25		0.67		0.033	U	0.092		**1.1**		0.033	U	0.16		0.033	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.12	J	0.39		0.33	U	0.039	J	0.42		0.33	U	0.077	J	0.33	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.098		0.26		0.033	U	0.027	J	0.42		0.033	U	0.06		0.033	U
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.05	J	0.33	U	0.023	J	0.33	U
Caprolactam	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Carbazole	NS	NS	0.014	J	0.014	J	0.33	U	0.013	J	0.15	J	0.33	U	0.35	U	0.33	U
Chrysene	**1**	4.9	0.2	J	0.61		0.33	U	0.087	J	0.86		0.33	U	0.13	J	0.33	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.032	J	0.097		0.033	U	0.033	U	0.11		0.033	U	0.018	J	0.033	U
Dibenzofuran	2.1	18	0.33	U	0.33	U	0.33	U	0.33	U	0.094	J	0.33	U	0.35	U	0.33	U
Diethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Dimethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Di-N-Butyl Phthalate	NS	NS	0.024	J	0.33	U	0.33	U	0.33	U	0.017	J	0.33	U	0.35	U	0.038	J
Di-N-Octylphthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.6	
Fluoranthene	85	100	0.34		1		0.33	U	0.16	J	2		0.33	U	0.22	J	0.33	U
Fluorene	30	100	0.33	U	0.01	J	0.33	U	0.01	J	0.17	J	0.33	U	0.35	U	0.33	U
Hexachlorobenzene	0.33	0.33	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
Hexachlorobutadiene	NS	NS	0.067	U	0.068	U	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Hexachloroethane	NS	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.12		0.36		0.033	U	0.036		0.41		0.033	U	0.077		0.033	U
Isophorone	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
Naphthalene	12	100	0.33	U	0.33	U	0.33	U	0.33	U	0.053	J	0.33	U	0.35	U	0.33	U
Nitrobenzene	0.08	1.8	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U
Phenanthrene	**1.1**	4.9	0.17	J	0.29	J	0.33	U	0.11	J	**1.6**		0.33	U	0.1	J	0.33	U
Phenol	0.33	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Pyrene	64	100	0.34		1.2		0.33	U	0.14	J	1.7		0.33	U	0.21	J	0.33	U

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211		SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9		460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.3	UJ	0.29	U	0.29	U	0.29	U	0.28	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.069	U	0.076	U	0.074	U	0.074	U	0.072	U	0.071	U	0.069	U
2,6-Dinitrotoluene	NS	NS	0.069	U	0.076	U	0.074	U	0.074	U	0.072	U	0.071	U	0.069	U
2-Chloronaphthalene	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Chlorophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Methylnaphthalene	NS	NS	0.34	U	0.059	J	0.36	U	0.084	J	0.094	J	0.35	U	0.028	J
2-Methylphenol (O-Cresol)	0.33	100	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Nitroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Nitrophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	UJ	0.3	U	0.29	UJ	0.29	UJ	0.29	UJ	0.28	UJ	0.28	UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Chloroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Nitroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Nitrophenol	NS	NS	0.69	U	0.76	U	0.74	U	0.74	U	0.72	U	0.71	U	0.69	U
Acenaphthene	20	100	0.34	U	0.26	J	0.36	U	0.21	J	0.32	J	0.044	J	0.24	J
Acenaphthylene	100	100	0.34	U	0.11	J	0.36	U	0.18	J	0.27	J	0.023	J	0.13	J
Acetophenone	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Anthracene	100	100	0.34	U	0.9		0.02	J	0.93		1		0.089	J	0.47	
Atrazine	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.34	UJ	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.35	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.034	U	**2.5**		0.06		**1.9**		**2.8**		0.42		**1.7**	
Benzo(a)Pyrene	**1**	1	0.034	U	**2.2**		0.044		**1.6**		**2.7**		0.44		**1.8**	
Benzo(b)Fluoranthene	**1**	1.4	0.034	U	**2.9**		0.055		**2.2**		**3.8**		0.58		**2.5**	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.34	U	**1.2**		0.031	J	**0.69**		**1.3**		0.22	J	**0.96**	
Benzo(k)Fluoranthene	**0.8**	4.9	0.034	U	**1.1**		0.025	J	**0.82**		**1.4**		0.22		**0.94**	
Benzyl Butyl Phthalate	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.34	U	0.021	J	0.36	U	0.026	J	0.028	J	0.35	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.34	U	0.05	J	0.36	U	0.8		0.24	J	0.35	U	0.34	U
Caprolactam	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Carbazole	NS	NS	0.34	U	0.37	J	0.36	U	0.29	J	0.43		0.034	J	0.23	J
Chrysene	**1**	4.9	0.34	U	**2.4**		0.053	J	**1.8**		**2.8**		0.41		**1.7**	
Dibenz(a,h)Anthracene	**0.33**	0.33	0.034	U	0.31		0.036	U	0.19		0.32		0.051		0.23	
Dibenzofuran	2.1	18	0.34	U	0.15	J	0.36	U	0.23	J	0.21	J	0.35	U	0.078	J
Diethyl Phthalate	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Dimethyl Phthalate	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.013	J	0.046	J	0.36	U	0.071	J	0.032	J	0.35	U	0.036	J
Di-N-Octylphthalate	NS	NS	0.19	J	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Fluoranthene	85	100	0.34	U	5.5		0.11	J	4.3		5.9		0.77		3.5	
Fluorene	30	100	0.34	U	0.23	J	0.36	U	0.28	J	0.31	J	0.025	J	0.16	J
Hexachlorobenzene	0.33	0.33	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
Hexachlorobutadiene	NS	NS	0.069	U	0.076	U	0.074	U	0.074	U	0.072	U	0.071	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Hexachloroethane	NS	NS	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	U	**1.2**		0.032	J	**0.77**		**1.4**		0.23		**1.1**	
Isophorone	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.34	U	0.074	J	0.36	U	0.069	J	0.12	J	0.0085	J	0.067	J
Nitrobenzene	0.08	1.8	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.3	UJ	0.29	U	0.29	U	0.29	U	0.28	U	0.28	U
Phenanthrene	**1.1**	4.9	0.017	J	**4.3**		0.09	J	**4.1**		**4.6**		0.38		**2**	
Phenol	0.33	100	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Pyrene	64	100	0.013	J	4.7		0.11	J	3.6		5.1		0.7		2.9	

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U

Table 4A
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		AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
		Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1260 (Aroclor 1260)	NS	NS	0.055	J	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
Total PCBs	0.1	1	0.055	J	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U

Table 4A
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Queens, NY
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Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1221 (Aroclor 1221)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1232 (Aroclor 1232)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1242 (Aroclor 1242)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1248 (Aroclor 1248)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1254 (Aroclor 1254)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1260 (Aroclor 1260)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1262 (Aroclor 1262)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1268 (Aroclor 1268)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
Total PCBs	0.1	1	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U

Table 4A
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Queens, NY
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		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
		Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1221 (Aroclor 1221)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1232 (Aroclor 1232)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1242 (Aroclor 1242)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1248 (Aroclor 1248)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1254 (Aroclor 1254)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1260 (Aroclor 1260)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1262 (Aroclor 1262)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1268 (Aroclor 1268)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
Total PCBs	0.1	1	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U

Table 4A
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Queens, NY
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Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
		Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
		Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1260 (Aroclor 1260)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
Total PCBs	0.1	1	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
		Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
		Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
Total PCBs	0.1	1	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
Total PCBs	0.1	1	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
		Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
Total PCBs	0.1	1	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1260 (Aroclor 1260)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
Total PCBs	0.1	1	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
		Lab Sample ID	460-349775-22		460-349775-23		460-349775-24		460-349846-6		460-349846-7		460-349846-8	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
Total PCBs	0.1	1	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428		RI-SB-13_0-0.17_20260428	
		Lab Sample ID	460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13		460-349846-14	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
Total PCBs	0.1	1	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
		Lab Sample ID	460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7		460-349933-8	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429		RI-DUP-03_20260429	
		Lab Sample ID	460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13		460-349933-14	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
Total PCBs	0.1	1	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1	
		Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1221 (Aroclor 1221)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1232 (Aroclor 1232)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1242 (Aroclor 1242)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1248 (Aroclor 1248)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1254 (Aroclor 1254)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1260 (Aroclor 1260)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1262 (Aroclor 1262)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1268 (Aroclor 1268)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
Total PCBs	0.1	1	0.2	U	0.2	U	0.2	U	0.2	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003		SB-03_0-2_20221003		SB-03_31-33_20221003	
		Lab Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2		460-266752-3		460-266752-4	
		Sample Date	10/5/2022		10/5/2022		10/3/2022		10/3/2022		10/3/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1221 (Aroclor 1221)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1232 (Aroclor 1232)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1242 (Aroclor 1242)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1248 (Aroclor 1248)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1254 (Aroclor 1254)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1260 (Aroclor 1260)	NS	NS	0.073	U	0.069	U	0.063	J	0.069	U	0.079	U	0.071	U
PCB-1262 (Aroclor 1262)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1268 (Aroclor 1268)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
Total PCBs	0.1	1	0.073	U	0.069	U	0.063	J	0.069	U	0.079	U	0.071	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-04_0-2_20221003		SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004	
		Lab Sample ID	460-266752-5		460-317091-1		460-317091-2		460-266752-6		460-266826-1		460-266826-2	
		Sample Date	10/3/2022		12/11/2024		12/11/2024		10/3/2022		10/4/2022		10/4/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
Total PCBs	0.1	1	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213	
		Lab Sample ID	460-266826-3		460-266826-4		460-266752-7		460-266752-8		460-317270-1		460-317270-2	
		Sample Date	10/4/2022		10/4/2022		10/3/2022		10/3/2022		12/13/2024		12/13/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
Total PCBs	0.1	1	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212		SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212	
		Lab Sample ID	460-317270-3		460-317182-1		460-317182-2		460-317182-3		460-317182-4		460-317182-5	
		Sample Date	12/13/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-6		460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
Total PCBs	0.1	1	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1260 (Aroclor 1260)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
Total PCBs	0.1	1	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024	
		Dilution Factor	1		1	
		Unit	mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.071	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.071	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.071	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.071	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.071	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.071	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.071	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.071	U	0.069	U
Total PCBs	0.1	1	0.071	U	0.069	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
Chlordane, cis-	0.014	0.65	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	UJ	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	UJ	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	UJ	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
		Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Chlordane (Technical)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0078	J
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Dieldrin	0.005	0.075	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfan I	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfan II	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endrin Aldehyde	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endrin Ketone	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Heptachlor	0.013	0.53	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Methoxychlor	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
P,P'-DDD	0.0033	5	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Toxaphene	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Chlordane (Technical)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
Chlordane, cis-	0.014	0.65	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Dieldrin	0.005	0.075	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfan I	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfan II	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfan Sulfate	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endrin Aldehyde	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endrin Ketone	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Heptachlor	0.013	0.53	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Heptachlor Epoxide	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Methoxychlor	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
P,P'-DDD	0.0033	5	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
P,P'-DDE	0.0033	3.4	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
P,P'-DDT	**0.0033**	3.8	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Toxaphene	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
		Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
Chlordane, cis-	0.014	0.65	0.0031	J	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan II	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Ketone	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Methoxychlor	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDD	0.0033	5	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	**0.0039**		**0.011**	**J**	0.002	U	**0.005**		0.0021	U	0.0021	U
Toxaphene	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
		Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
		Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Chlordane (Technical)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Toxaphene	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U

Table 5A
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Queens, NY
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Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
		Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
		Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	UJ	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
Chlordane, cis-	0.014	0.65	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	UJ	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	UJ	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Toxaphene	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U

Table 5A
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Queens, NY
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Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.0029	J	0.0021	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0021	U	**0.013**		**0.0091**		0.002	U	0.002	U
Toxaphene	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U

Table 5A
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Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
Chlordane, cis-	0.014	0.65	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
		Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Chlordane (Technical)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfan I	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfan II	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endrin Ketone	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Heptachlor	0.013	0.53	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Methoxychlor	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
P,P'-DDD	0.0033	5	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Toxaphene	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0052	J
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	**0.0037**	
Toxaphene	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
		Lab Sample ID	460-349775-22		460-349775-23		460-349775-24		460-349846-6		460-349846-7		460-349846-8	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
Chlordane, cis-	0.014	0.65	0.0089	J	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	**0.0057**		0.0022	U	0.0021	U	**0.004**	**J**	**0.0037**		0.002	U
Toxaphene	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428		RI-SB-13_0-0.17_20260428	
		Lab Sample ID	460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13		460-349846-14	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Chlordane (Technical)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.014		0.0021	U	0.0022	U	0.0022	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	**0.0066**		0.0021	U	0.0022	U	0.0022	U	0.002	U
Toxaphene	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
		Lab Sample ID	460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7		460-349933-8	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
Chlordane, cis-	0.014	0.65	0.0092	J	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429		RI-DUP-03_20260429	
		Lab Sample ID	460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13		460-349933-14	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
Chlordane, cis-	0.014	0.65	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1	
		Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
Chlordane, cis-	0.014	0.65	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.005	0.075	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.025	0.21	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.013	0.53	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.0033	5	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.0033	3.4	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	**0.0033**	3.8	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	NS	NS	0.5	U	0.5	U	0.5	U	0.5	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003		SB-03_0-2_20221003	
		Lab Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2		460-266752-3	
		Sample Date	10/5/2022		10/5/2022		10/3/2022		10/3/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Chlordane (Technical)	NS	NS	0.073	U	0.069	U	0.057	J	0.069	U	0.079	U
Chlordane, cis-	**0.014**	0.65	0.0073	U	0.0069	U	0.0052	J	0.0069	U	0.0079	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Dieldrin	0.005	0.075	0.002	J	0.002	U	0.0021	U	0.002	U	0.0023	U
Endosulfan I	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endosulfan II	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endosulfan Sulfate	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endrin Aldehyde	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endrin Ketone	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Heptachlor	0.013	0.53	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Heptachlor Epoxide	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Methoxychlor	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
P,P'-DDD	0.0033	5	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
P,P'-DDE	**0.0033**	3.4	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
P,P'-DDT	**0.0033**	3.8	0.0033	J	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Toxaphene	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003	
		Lab Sample ID	460-266752-4		460-266752-5		460-317091-1		460-317091-2		460-266752-6	
		Sample Date	10/3/2022		10/3/2022		12/11/2024		12/11/2024		10/3/2022	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.071	U	0.075	U	0.071	U	0.072	U	0.069	U
Chlordane, cis-	**0.014**	0.65	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endosulfan II	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endosulfan Sulfate	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endrin Aldehyde	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endrin Ketone	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Heptachlor Epoxide	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Methoxychlor	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
P,P'-DDD	0.0033	5	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
P,P'-DDE	**0.0033**	3.4	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
P,P'-DDT	**0.0033**	3.8	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Toxaphene	NS	NS	0.071	U	0.075	U	0.071	U	0.072	U	0.069	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-05_0-2_20221004		SB-05_29-31_20221004		SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003	
		Lab Sample ID	460-266826-1		460-266826-2		460-266826-3		460-266826-4		460-266752-7	
		Sample Date	10/4/2022		10/4/2022		10/4/2022		10/4/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Chlordane (Technical)	NS	NS	0.12		0.069	U	0.073	U	0.069	U	0.076	U
Chlordane, cis-	**0.014**	0.65	0.013	J	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Dieldrin	0.005	0.075	0.0027		0.0021	U	0.0022	U	0.0021	U	0.0023	U
Endosulfan I	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endosulfan II	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endosulfan Sulfate	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endrin Aldehyde	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endrin Ketone	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Heptachlor	0.013	0.53	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Heptachlor Epoxide	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Methoxychlor	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
P,P'-DDD	0.0033	5	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
P,P'-DDE	**0.0033**	3.4	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
P,P'-DDT	**0.0033**	3.8	**0.0063**	**J**	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Toxaphene	NS	NS	0.074	U	0.069	U	0.073	U	0.069	U	0.076	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213		SB-08_9-11_20241213		SB-09_0-2_20241212	
		Lab Sample ID	460-266752-8		460-317270-1		460-317270-2		460-317270-3		460-317182-1	
		Sample Date	10/3/2022		12/13/2024		12/13/2024		12/13/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U
Chlordane, cis-	**0.014**	0.65	0.0069	U	**0.021**		0.0067	U	0.0067	U	0.0067	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan II	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan Sulfate	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Aldehyde	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Ketone	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Heptachlor Epoxide	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Methoxychlor	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDD	0.0033	5	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDE	**0.0033**	3.4	0.0069	U	**0.0036**	**J**	0.0067	U	0.0067	U	0.0067	U
P,P'-DDT	**0.0033**	3.8	0.0069	U	**0.0084**		0.0067	U	0.0067	U	0.0067	U
Toxaphene	NS	NS	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-09_8-10_20241212		SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212		SB-10_8-10_20241212	
		Lab Sample ID	460-317182-2		460-317182-3		460-317182-4		460-317182-5		460-317182-6	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
Chlordane, cis-	**0.014**	0.65	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan II	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan Sulfate	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Aldehyde	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Ketone	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Heptachlor Epoxide	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Methoxychlor	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDD	0.0033	5	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDE	**0.0033**	3.4	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDT	**0.0033**	3.8	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Toxaphene	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
Chlordane, cis-	**0.014**	0.65	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Endosulfan I	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endosulfan II	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endosulfan Sulfate	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endrin Aldehyde	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endrin Ketone	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Heptachlor	0.013	0.53	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Heptachlor Epoxide	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Methoxychlor	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
P,P'-DDD	0.0033	5	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
P,P'-DDE	**0.0033**	3.4	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
P,P'-DDT	**0.0033**	3.8	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Toxaphene	NS	NS	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Chlordane (Technical)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
Chlordane, cis-	**0.014**	0.65	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Dieldrin	0.005	0.075	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Endosulfan I	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endosulfan II	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endosulfan Sulfate	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endrin Aldehyde	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endrin Ketone	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Heptachlor	0.013	0.53	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Heptachlor Epoxide	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Methoxychlor	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
P,P'-DDD	0.0033	5	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
P,P'-DDE	**0.0033**	3.4	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
P,P'-DDT	**0.0033**	3.8	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Toxaphene	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024	
		Dilution Factor	1		1	
		Unit	mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0071	U	0.0069	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.071	U	0.069	U
Chlordane, cis-	**0.014**	0.65	0.0071	U	0.0035	J
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0071	U	0.0069	U
Endosulfan II	NS	NS	0.0071	U	0.0069	U
Endosulfan Sulfate	NS	NS	0.0071	U	0.0069	U
Endosulfans ABS	4.3	35	0	U	0	U
Endrin	0.014	5.3	0.0071	U	0.0069	U
Endrin Aldehyde	NS	NS	0.0071	U	0.0069	U
Endrin Ketone	NS	NS	0.0071	U	0.0069	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0071	U	0.0069	U
Heptachlor Epoxide	NS	NS	0.0071	U	0.0069	U
Methoxychlor	NS	NS	0.0071	U	0.0069	U
P,P'-DDD	0.0033	5	0.0071	U	0.0069	U
P,P'-DDE	**0.0033**	3.4	0.0071	U	0.0069	U
P,P'-DDT	**0.0033**	3.8	0.0071	U	0.0022	J
Toxaphene	NS	NS	0.071	U	0.069	U

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,450		5,350		7,060		2,850		3,300		2,160	
Antimony	NS	NS	0.076	J	0.091	J	0.12	J	0.9	U	1	UJ	0.9	UJ
Arsenic	13	16	2.1		2.2		3.8		0.72	J	0.75	J	0.62	J
Barium	410	410	56.8		50.6		24.9		20.7		21.1	JL	15.1	JL
Beryllium	4.4	43	0.2	J	0.22	J	0.34	J	0.13	J	0.16	J	0.11	J
Cadmium	2.5	2.5	0.14	J	0.12	J	0.49	U	0.45	U	0.5	U	0.45	U
Calcium	NS	NS	34,200		23,900		1,750	J	911		6,200		17,800	
Chromium, Hexavalent	1	1	0.98	U	1	U	1.1	U	0.38	J	1	U	1	U
Chromium, Total	NS	NS	10.8		10.2		13.8		9.6		10.1		6.9	
Cobalt	NS	NS	4.7		4		5.5		3.6		3.1		2.6	
Copper	**50**	280	20.8		15.7		13.3		7.9		8.8		6.4	
Iron	NS	NS	10,900		9,460		13,400		7,230		8,160		5,980	
Lead	**63**	400	41.3		55.8		6.1		1.8		2.9	J	1.7	J
Magnesium	NS	NS	5,700		4,390		2,160		1,500		4,550	J	11,400	J
Manganese	1,600	2,000	159		166		283		201		167	JK	148	JK
Mercury	**0.18**	0.3	0.035		0.028		0.0087	J	0.017	U	0.016	U	0.016	U
Nickel	30	320	11.8		9.4		13.5		7.2		7.4		5.4	
Potassium	NS	NS	1,990		1,430		831		438		618	JL	452	JL
Selenium	3.9	110	0.12	J	1.1	U	0.13	J	1.1	U	1.3	U	1.1	U
Silver	2	110	0.37	U	0.37	U	0.39	U	0.36	U	0.4	U	0.36	U
Sodium	NS	NS	198		234		373		168		211		169	
Thallium	NS	NS	0.096	J	0.084	J	0.068	J	0.36	U	0.054	J	0.36	U
Vanadium	NS	NS	22		17.6		17.2		14.3		11.4		10.9	
Zinc	**109**	6,600	55.7		34.4		22.9		14.8		17.2		11.9	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
		Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,720		3,950		2,720		4,840		2,750		5,630	
Antimony	NS	NS	0.3	J	0.21	J	0.92	U	0.85	U	1	U	0.24	J
Arsenic	13	16	3.5		1.7		0.75	J	0.87		0.67	J	4.1	
Barium	410	410	74.1		30		19.4		37.8		29.4		58.1	
Beryllium	4.4	43	0.55		0.23	J	0.14	J	0.16	J	0.15	J	0.29	J
Cadmium	2.5	2.5	0.22	J	0.12	J	0.46	U	0.42	U	0.5	U	0.4	J
Calcium	NS	NS	15,000		1,190		929		16,600		1,200		12,700	
Chromium, Hexavalent	1	1	1	U	0.51	J	0.48	J	1	U	0.98	U	0.46	J
Chromium, Total	NS	NS	20.8		11.1		6.7		10.8		6		12.4	
Cobalt	NS	NS	6.9		3.9		2.9		4.1		3.6		4.2	
Copper	**50**	280	**78.7**		19.1		9.2		16.8		9.9		40.3	
Iron	NS	NS	12,100		9,120		5,690		10,500		7,410		11,000	
Lead	**63**	400	**216**		43.9		3.6		4.1		2.2		**127**	
Magnesium	NS	NS	5,420		2,280		1,560		9,610		1,990		5,080	
Manganese	1,600	2,000	229		218		203		203		246		217	
Mercury	**0.18**	0.3	**0.32**		0.034		0.016	U	0.017	U	0.016	U	0.18	
Nickel	30	320	22.2		9.8		7.5		9.3		7.1		12.9	
Potassium	NS	NS	1,050		763		543		1,380		510		774	
Selenium	3.9	110	0.21	J	0.11	J	1.1	U	1.1	U	1.2	U	0.28	J
Silver	2	110	0.18	J	0.35	U	0.37	U	0.34	U	0.4	U	0.15	J
Sodium	NS	NS	642		392		326		448		97.9	J	380	
Thallium	NS	NS	0.086	J	0.062	J	0.37	U	0.1	J	0.059	J	0.079	J
Vanadium	NS	NS	31		16.2		8.1		16.3		10.9		23.5	
Zinc	**109**	6,600	**550**		42.1		17.5		27.1		20.1		106	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	8,490		6,070		5,880		2,240		7,500		7,850	
Antimony	NS	NS	0.41	J	0.15	J	0.89	U	0.98	U	0.18	J	0.075	J
Arsenic	13	16	7.6		2.1		0.95		0.48	J	2.6		2.5	
Barium	410	410	80.3		40		39		12.7		50.2		42	
Beryllium	4.4	43	0.38	J	0.27	J	0.24	J	0.094	J	0.29	J	0.3	J
Cadmium	2.5	2.5	0.47	J	0.12	J	0.45	U	0.49	U	0.15	J	0.48	U
Calcium	NS	NS	5,150		5,000		3,620		10,100		5,220		3,500	
Chromium, Hexavalent	1	1	0.67	J	0.41	J	0.54	J	1	U	1.1	U	1.1	U
Chromium, Total	NS	NS	18.1		15.7		18.4		4.9		14.8		15.8	
Cobalt	NS	NS	6.2		6.1		4.6		1.9		4.9		5.6	
Copper	**50**	280	**64.7**		22		16.5		7.5		19.6		18	
Iron	NS	NS	16,700		11,400		10,400		5,030		12,200		13,900	
Lead	**63**	400	**132**		27.4		5.9		1.8		43.6		29.7	
Magnesium	NS	NS	2,930		3,770		3,770		6,480		3,640		3,010	
Manganese	1,600	2,000	230		320		229		111		140		199	
Mercury	**0.18**	0.3	0.16		0.081		0.012	J	0.017	U	0.065		0.037	
Nickel	30	320	17.4		13		11.5		4.6		11.6		11.2	
Potassium	NS	NS	853		702		1,000		281		1,040		1,220	
Selenium	3.9	110	0.37	J	0.14	J	1.1	U	1.2	U	0.25	J	0.15	J
Silver	2	110	0.19	J	0.35	U	0.36	U	0.39	U	0.42	U	0.38	U
Sodium	NS	NS	254		201		209		138		898		985	
Thallium	NS	NS	0.11	J	0.07	J	0.058	J	0.39	U	0.076	J	0.077	J
Vanadium	NS	NS	27.9		17.7		17.2		6		20		22.8	
Zinc	**109**	6,600	**114**		42.3		28.9		10.4		45.3		38.1	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
		Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	6,980		2,070		2,600		5,940		6,310		4,410	
Antimony	NS	NS	0.29	J	0.88	U	0.9	U	0.18	J	0.11	J	0.11	JL
Arsenic	13	16	4		0.88		0.64	J	2.2		2.3		1.3	
Barium	410	410	141		16.3		16.4		45.1		51.2		34.2	JL
Beryllium	4.4	43	0.37		0.093	J	0.12	J	0.27	J	0.28	J	0.22	J
Cadmium	2.5	2.5	0.55		0.44	U	0.45	U	0.13	J	0.13	J	0.52	U
Calcium	NS	NS	9,970		15,500		5,000		11,000		5,000		2,840	
Chromium, Hexavalent	1	1	0.78	J	0.99	U	0.99	U	1	U	1	U	1	U
Chromium, Total	NS	NS	14.2		4.4		8.6		14.9		15.5		14.4	JL
Cobalt	NS	NS	5.7		2.3		2.1		4.5		4.6		3.9	
Copper	**50**	280	40.2		7.2		8.4		26.6		25.2		16.8	JL
Iron	NS	NS	12,600		5,290		5,960		11,000		10,900		8,830	
Lead	**63**	400	**369**		1.7		3.8		44.9		61.2		23.2	
Magnesium	NS	NS	5,170		6,450		3,340		3,330		3,660		2,350	
Manganese	1,600	2,000	248		164		135		237		260		232	
Mercury	**0.18**	0.3	0.13		0.016	U	0.017	U	0.041		0.046		0.029	
Nickel	30	320	15.1		4.6		5.8		11.3		12.3		11.4	JL
Potassium	NS	NS	982		352		438		1,190		1,190		700	
Selenium	3.9	110	0.24	J	1.1	U	1.1	U	1.2	U	1.2	U	1.3	U
Silver	2	110	0.14	J	0.35	U	0.36	U	0.39	U	0.38	U	0.42	U
Sodium	NS	NS	764		99.8		138		357		486		305	
Thallium	NS	NS	0.094	J	0.35	U	0.36	U	0.078	J	0.08	J	0.048	J
Vanadium	NS	NS	29		6.4		7.1		17.4		19.5		13.9	
Zinc	**109**	6,600	**215**		11.3		12.9		46.4		52.5		28.5	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
		Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
		Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,370		4,510		6,100		4,420		7,100		2,530	
Antimony	NS	NS	0.91	U	0.92	U	0.12	J	1	U	0.82	U	0.78	U
Arsenic	13	16	0.8	J	0.72	J	3.8		1.9		0.77	J	0.51	J
Barium	410	410	26.5		54.2		37.2		34.7		52.6		18.4	
Beryllium	4.4	43	0.14	J	0.27	J	0.25	J	0.23	J	0.26	J	0.12	J
Cadmium	2.5	2.5	0.45	U	0.46	U	0.13	J	0.11	J	0.41	U	0.39	U
Calcium	NS	NS	1,750		1,890		18,500		3,700		1,590		13,600	
Chromium, Hexavalent	1	1	1	U	1	U	1	U	0.39	J	0.99	U	1	U
Chromium, Total	NS	NS	9.1		10.9		12.4		10.4		16.2		6.4	
Cobalt	NS	NS	3.1		3.9		5		4.1		4.9		2.1	
Copper	**50**	280	15.5		13.2		19.8		19.6		17.3		6.1	
Iron	NS	NS	7,310		8,900		11,500		8,630		12,800		5,650	
Lead	**63**	400	5.1		2.6		42.7		24.1		2.5		1.5	
Magnesium	NS	NS	1,980		2,730		4,180		2,750		3,900		6,790	
Manganese	1,600	2,000	206		567		212		237		184		125	
Mercury	**0.18**	0.3	0.016	U	0.017	U	0.062		0.044		0.016	U	0.017	U
Nickel	30	320	7.1		10.2		13.5		10.3		11.5		5	
Potassium	NS	NS	560		890		903		913		1,580		387	
Selenium	3.9	110	1.1	U	1.1	U	0.16	J	1.2	U	1	U	0.98	U
Silver	2	110	0.36	U	0.37	U	0.32	U	0.4	U	0.33	U	0.31	U
Sodium	NS	NS	235		398		254		154		430		111	
Thallium	NS	NS	0.049	J	0.087	J	0.068	J	0.073	J	0.13	J	0.31	U
Vanadium	NS	NS	12.2		15.1		22.7		17.1		20.6		6.6	
Zinc	**109**	6,600	15.7		19.6		44.2		36.4		30.8		10.6	

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		AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
		Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
		Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	2,790		7,320		6,890		5,850		4,430		2,600	
Antimony	NS	NS	1	UJ	0.11	J	0.12	J	0.98	U	1	UJ	0.9	U
Arsenic	13	16	0.76	J	2.7		3.1		1		0.98	J	0.51	J
Barium	410	410	21.8	JL	72.4		64.4		29		33		18.4	
Beryllium	4.4	43	0.13	J	0.33	J	0.31	J	0.28	J	0.19	J	0.12	J
Cadmium	2.5	2.5	0.5	U	0.14	J	0.22	J	0.49	U	0.52	U	0.45	U
Calcium	NS	NS	2,070		60,200		4,190		1,620		1,730	JL	21,000	
Chromium, Hexavalent	1	1	1	U	1.1	U	1.1	U	1	U	1	U	1	U
Chromium, Total	NS	NS	9.6		15.3		17.5		11		13.7		5.2	
Cobalt	NS	NS	2.6		4.3		5.2		4.6		4.4		3.6	
Copper	**50**	280	7.4		18.6		21.8		16.3		15.4		7	
Iron	NS	NS	6,220		10,300		12,400		9,590		8,470		5,590	
Lead	**63**	400	2.1	JL	36.8		**129**		4.4		2.6		20.3	
Magnesium	NS	NS	2,010		9,440		3,820		3,040		2,340		12,200	
Manganese	1,600	2,000	124	JK	199		236		257		234		170	
Mercury	**0.18**	0.3	0.0067	J	0.053		0.063		0.017	U	0.018	U	0.017	U
Nickel	30	320	5.6		11.6		12.4		11.8		9.8		5.2	
Potassium	NS	NS	510	JL	1,950		1,020		754		895		566	
Selenium	3.9	110	1.3	U	0.14	J	0.13	J	1.2	U	1.3	U	1.1	U
Silver	2	110	0.4	UJ	0.41	U	0.39	U	0.39	U	0.41	U	0.36	U
Sodium	NS	NS	102		1,360		486		425		334		128	
Thallium	NS	NS	0.4	U	0.098	J	0.092	J	0.052	J	0.067	J	0.044	J
Vanadium	NS	NS	8.8	JL	20.9		20.1		15.4		13.1	JK	8.3	
Zinc	**109**	6,600	12.9		58.4		86.4		22.6		20.2		13.3	

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		AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	6,360		5,270		6,850		7,360		2,640		2,460	
Antimony	NS	NS	0.97	U	0.12	J	0.18	J	0.2	J	0.94	U	0.93	U
Arsenic	13	16	1.4		4.1		5.1		4.5		0.45	J	0.55	J
Barium	410	410	68.6		66.3		58.6		84.6		14.4		15.1	
Beryllium	4.4	43	0.25	J	0.29	J	0.29	J	0.31	J	0.12	J	0.12	J
Cadmium	2.5	2.5	0.13	J	0.48	U	0.31	J	0.28	J	0.47	U	0.47	U
Calcium	NS	NS	1,810		72,000		11,900		21,400		785		1,160	
Chromium, Hexavalent	1	1	1	U	1	U	1	U	1	U	0.99	U	0.99	U
Chromium, Total	NS	NS	19.3		19.8		22		21.3		5.3		6.6	
Cobalt	NS	NS	6.5		4.4		5.5		5.8		2		2.2	
Copper	**50**	280	23.7		16.4		33.6		37.2		6.3		5.9	
Iron	NS	NS	12,900		10,500		14,300		15,400		5,290		6,140	
Lead	**63**	400	10.8		20.6		**85.6**		**154**		1.6		1.5	
Magnesium	NS	NS	3,680		11,200		4,790		6,030		1,620		1,360	
Manganese	1,600	2,000	561		166		289		267		131		151	
Mercury	**0.18**	0.3	0.013	J	0.035		0.067		0.12		0.015	U	0.017	U
Nickel	30	320	12.7		17.3		18.7		18.4		5.1		5.1	
Potassium	NS	NS	1,930		1,560		1,210		1,470		420		355	
Selenium	3.9	110	1.2	U	0.23	J	0.21	J	0.19	J	1.2	U	1.2	U
Silver	2	110	0.39	U	0.39	U	0.089	J	0.38	U	0.38	U	0.37	U
Sodium	NS	NS	513	J	259		283		272		211		106	
Thallium	NS	NS	0.15	J	0.11	J	0.093	J	0.11	J	0.04	J	0.37	U
Vanadium	NS	NS	22.3		23.1		24		28.6		6.2		7.9	
Zinc	**109**	6,600	33.6		29.9		80.9		91.2		12.3		9.6	

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		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,830		6,040		5,840		7,570		5,250		3,740	
Antimony	NS	NS	0.14	J	0.99	U	0.94	U	0.94	U	0.9	U	0.8	U
Arsenic	13	16	9.3		1.8		1.9		1.3		1.2		0.78	J
Barium	410	410	48.6		28.4		25.1		66.9		31.3		18.7	
Beryllium	4.4	43	0.28	J	0.42		0.31	J	0.44		0.25	J	0.21	J
Cadmium	2.5	2.5	0.18	J	0.5	U	0.47	U	0.47	U	0.45	U	0.4	U
Calcium	NS	NS	13,600		993		1,510		901		1,730		11,300	
Chromium, Hexavalent	1	1	0.48	J	0.57	J	0.62	J	0.42	J	0.57	J	1	U
Chromium, Total	NS	NS	11.5		12		12.7		15.8		13.9		8.9	
Cobalt	NS	NS	4.4		6.7		4.9		6		4.4		3.4	
Copper	**50**	280	24.7		16		13.9		18.7		12.3		8.3	
Iron	NS	NS	10,100		12,200		10,300		12,700		10,600		7,730	
Lead	**63**	400	59.3		5		4.3		7.3		3.1		2.1	
Magnesium	NS	NS	6,430		2,710		2,220		2,910		3,160		8,120	
Manganese	1,600	2,000	256		316		291		277		225		185	
Mercury	**0.18**	0.3	0.054		0.0076	J	0.0096	J	0.016	U	0.016	U	0.016	U
Nickel	30	320	10.9		15.1		11.8		10.6		9.6		7.5	
Potassium	NS	NS	888		518		653		1,150		1,270		965	
Selenium	3.9	110	0.15	J	1.2	U	1.2	U	1.2	U	1.1	U	1	U
Silver	2	110	0.092	J	0.4	U	0.37	U	0.38	U	0.36	U	0.32	U
Sodium	NS	NS	248		133		145		266		201		136	
Thallium	NS	NS	0.091	J	0.05	J	0.054	J	0.082	J	0.067	J	0.066	J
Vanadium	NS	NS	17.9		18.6		14		24.3		17.2		13	
Zinc	**109**	6,600	59.2		32.2		35.6		38.9		25.2		21.1	

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		AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
		Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	2,530		4,610		2,200		2,660		2,800		2,890	
Antimony	NS	NS	0.95	U	1	U	0.83	U	0.075	J	0.91	U	0.96	U
Arsenic	13	16	0.5	J	0.76	J	0.61	J	0.68	J	0.78	J	0.87	J
Barium	410	410	19.4		36.7		16.3		19.2		15.6		22.5	
Beryllium	4.4	43	0.1	J	0.24	J	0.095	J	0.13	J	0.12	J	0.14	J
Cadmium	2.5	2.5	0.47	U	0.52	U	0.41	U	0.47	U	0.45	U	0.48	U
Calcium	NS	NS	25,400		33,200		25,400		23,700		9,230		20,000	
Chromium, Hexavalent	1	1	0.44	J	0.45	J	0.99	U	1	U	0.42	J	0.58	J
Chromium, Total	NS	NS	5.3		9.8		5.3		7.5		8.6		14.6	
Cobalt	NS	NS	2.3		4		2.6		2.3		2.7		2.8	
Copper	**50**	280	7.2		9.6		6.6		7.8		7.7		12.2	
Iron	NS	NS	5,130		8,840		6,060		6,250		6,760		7,390	
Lead	**63**	400	1.8		3		1.7		2.1		2		2.3	
Magnesium	NS	NS	12,800		17,400		13,200		12,200		6,450		11,200	
Manganese	1,600	2,000	152		179		120		155		175		211	
Mercury	**0.18**	0.3	0.017	U	0.019	U	0.016	U	0.015	U	0.017	U	0.017	U
Nickel	30	320	4.7		8.5		5.7		5.4		6.6		7.6	
Potassium	NS	NS	620		1,270		442		564		374		578	
Selenium	3.9	110	1.2	U	1.3	U	1	U	1.2	U	1.1	U	1.2	U
Silver	2	110	0.38	U	0.42	U	0.33	U	0.37	U	0.36	U	0.39	U
Sodium	NS	NS	94.3	J	170		102		113		121		130	
Thallium	NS	NS	0.38	U	0.079	J	0.33	U	0.056	J	0.36	U	0.045	J
Vanadium	NS	NS	7		15.5		10.9		9.7		8.5		10.4	
Zinc	**109**	6,600	11.8		25.4		12.6		16.7		16.1		43.1	

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		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,410		2,840		4,230		5,240		8,120		5,650	
Antimony	NS	NS	1	U	0.98	U	0.75	U	1.1	UJ	0.96	UJ	0.42	J
Arsenic	13	16	1.3		0.56	J	0.86		0.89	J	1.3		4.3	
Barium	410	410	21.9		17.5		36.1		48.6	J	81	J	342	
Beryllium	4.4	43	0.16	J	0.12	J	0.2	J	0.21	J	0.32	J	0.31	J
Cadmium	2.5	2.5	0.51	U	0.49	U	0.38	U	0.54	U	0.48	U	0.61	
Calcium	NS	NS	18,200		24,800		32,300		25,200		21,600		13,800	
Chromium, Hexavalent	1	1	0.67	J	0.4	J	0.43	J	0.45	J	0.45	J	0.44	J
Chromium, Total	NS	NS	24.1		5.9		9.3		12.3	JK	19.6	JK	17	
Cobalt	NS	NS	3.2		2.5		3.9		4.9		7		5.5	
Copper	**50**	280	11.8		6.9		11.8		12		17		**52.8**	
Iron	NS	NS	7,930		5,910		8,760		10,800		16,100		13,700	
Lead	**63**	400	6.2		1.6		2.4		2.9		4.6		**221**	
Magnesium	NS	NS	8,670		15,700		16,500		13,600		12,900		3,960	
Manganese	1,600	2,000	163		145		234		193	JK	311	JK	252	
Mercury	**0.18**	0.3	0.0076	J	0.018	U	0.017	U	0.017	U	0.017	U	**0.29**	
Nickel	30	320	8.2		5.7		9.7		10.5		17.1		15	
Potassium	NS	NS	756		495		992		1,450	JK	2,530	JK	1,100	
Selenium	3.9	110	1.3	U	1.2	U	0.94	U	1.3	U	1.2	U	0.42	J
Silver	2	110	0.41	U	0.39	U	0.3	U	0.43	U	0.39	U	0.37	J
Sodium	NS	NS	178		176		188		197		261		341	
Thallium	NS	NS	0.042	J	0.39	U	0.075	J	0.078	J	0.16	J	0.095	J
Vanadium	NS	NS	11.8		8.4		15.1		17.5	JK	25.6	JK	28.9	
Zinc	**109**	6,600	38.9		15.7		23.9		30.1		42.7		**270**	

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		AKRF Sample ID	RI-SB-10_4-6_20260427			RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428	
		Lab Sample ID	460-349775-22			460-349775-23		460-349775-24		460-349846-6		460-349846-7	
		Sample Date	4/27/2026			4/27/2026		4/27/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		10	1		1		1		1	
		Unit	mg/kg		mg/kg	mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	7,230		NR	6,760		6,980		7,110		7,010	
Antimony	NS	NS	1		NR	0.97	U	0.99	U	0.94	U	0.91	U
Arsenic	13	16	7.1		NR	0.9	J	0.84	J	1.8		1.8	
Barium	410	410	90.3		NR	39.1		39.1		55.9		72.5	
Beryllium	4.4	43	0.37		NR	0.29	J	0.3	J	0.31	J	0.3	J
Cadmium	2.5	2.5	0.94		NR	0.48	U	0.5	U	0.11	J	0.15	J
Calcium	NS	NS	10,800		NR	1,630		2,180		2,710		3,460	
Chromium, Hexavalent	1	1	1.1	U	NR	1.1	U	0.46	J	0.99	U	1	U
Chromium, Total	NS	NS	22.7		NR	18.7		17.5		17.9		13.3	
Cobalt	NS	NS	6.9		NR	5.4		5.9		5.4		5.1	
Copper	**50**	280	**68.7**		NR	24		15.6		20.9		21.1	
Iron	NS	NS	30,600		NR	13,000		13,600		12,600		12,000	
Lead	**63**	400	NR		**4,660**	6.5		3.9		45.2		40.8	
Magnesium	NS	NS	3,990		NR	3,560		3,870		3,840		3,710	
Manganese	1,600	2,000	335		NR	254		278		277		298	
Mercury	**0.18**	0.3	**0.19**		NR	0.018	U	0.018	U	0.032		0.028	
Nickel	30	320	23.2		NR	11.1		12.2		12.6		13.3	
Potassium	NS	NS	696		NR	1,790		1,960		1,370		1,240	
Selenium	3.9	110	0.52	J	NR	1.2	U	1.2	U	1.2	U	0.12	J
Silver	2	110	0.6		NR	0.39	U	0.4	U	0.38	U	0.36	U
Sodium	NS	NS	369		NR	266		347		298		216	
Thallium	NS	NS	0.097	J	NR	0.093	J	0.099	J	0.1	J	0.099	J
Vanadium	NS	NS	30.7		NR	22.3		23.6		23.4		23.1	
Zinc	**109**	6,600	**162**		NR	30.5		33.5		45		60.3	

Table 6A
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		AKRF Sample ID	RI-SB-11_2-4_20260428		RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428	
		Lab Sample ID	460-349846-8		460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	7,180		5,930		4,400		7,260		6,830		5,150	
Antimony	NS	NS	0.94	U	0.85	J	0.11	J	0.92	U	1	U	1	U
Arsenic	13	16	0.88	J	10.2		3.3		2.3		0.88	J	0.86	J
Barium	410	410	75.2		154		40.5		73.6		55.3		41.7	
Beryllium	4.4	43	0.22	J	0.4		0.22	J	0.23	J	0.28	J	0.23	J
Cadmium	2.5	2.5	0.47	U	1		0.26	J	0.46	U	0.5	U	0.51	U
Calcium	NS	NS	2,570		25,700		28,800		1,600		2,060		1,170	
Chromium, Hexavalent	1	1	1	U	1	U	1	U	1	U	1.1	U	1.1	U
Chromium, Total	NS	NS	18.4		15.6		8.5		53.5		15.4		13.8	
Cobalt	NS	NS	5.2		6.4		3.1		4.6		5.4		4.6	
Copper	**50**	280	16.8		**106**		23.4		18.2		13.5		10.8	
Iron	NS	NS	12,900		25,700		7,950		19,000		11,100		9,570	
Lead	**63**	400	3.6		**298**		36		4		3.2		2.8	
Magnesium	NS	NS	4,180		5,280		5,060		2,710		3,480		2,520	
Manganese	1,600	2,000	246		238		195		282		283		287	
Mercury	**0.18**	0.3	0.017	U	**0.25**		0.02		0.017	U	0.018	U	0.018	U
Nickel	30	320	10		20		7		12.3		11.3		9.3	
Potassium	NS	NS	2,640		934		639		2,520		1,320		1,120	
Selenium	3.9	110	1.2	U	0.54	J	0.16	J	1.1	U	1.2	U	1.3	U
Silver	2	110	0.38	U	0.37	J	0.39	U	0.37	U	0.4	U	0.41	U
Sodium	NS	NS	231		537		298		391		209		318	
Thallium	NS	NS	0.14	J	0.15	J	0.066	J	0.2	J	0.085	J	0.07	J
Vanadium	NS	NS	22.6		31.1		12		21.4		20.1		17.8	
Zinc	**109**	6,600	39.1		**253**		61.5		60.2		27.6		21.7	

Table 6A
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		AKRF Sample ID	RI-SB-13_0-0.17_20260428		RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429	
		Lab Sample ID	460-349846-14		460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,820		6,910		7,560		6,240		7,030		5,990	
Antimony	NS	NS	0.9	U	0.92	U	0.93	U	0.9	U	0.071	J	0.28	J
Arsenic	13	16	1.2		1		1		0.94		1.9		3.2	
Barium	410	410	43.9		55.7		55.3		45.5		60.3		69.6	
Beryllium	4.4	43	0.26	J	0.31	J	0.31	J	0.27	J	0.26	J	0.37	
Cadmium	2.5	2.5	0.45	U	0.46	U	0.46	U	0.45	U	0.47	U	0.33	J
Calcium	NS	NS	2,200		2,280		1,140		1,120		45,400		12,400	
Chromium, Hexavalent	1	1	1	U	0.99	U	1	U	1	U	1	U	0.99	U
Chromium, Total	NS	NS	12.4		17.3		17.3		16.6		12.5		12.7	
Cobalt	NS	NS	4.2		5		5.5		5.5		4.3		5.4	
Copper	**50**	280	11.2		12.3		14.2		13		18.9		47.1	
Iron	NS	NS	10,900		11,100		11,800		11,200		9,110		11,800	
Lead	**63**	400	10.2		5.2		4.6		2.9		36.5		**160**	
Magnesium	NS	NS	2,590		3,120		3,420		2,950		7,510		5,420	
Manganese	1,600	2,000	213		249		286		289		147		245	
Mercury	**0.18**	0.3	0.0061	J	0.017	U	0.0067	J	0.017	U	0.041		**0.25**	
Nickel	30	320	7.8		10.8		11		10.1		11.4		16.4	
Potassium	NS	NS	1,090		1,250		1,320		1,370		1,710		763	
Selenium	3.9	110	1.1	U	1.1	U	1.2	U	1.1	U	1.2	U	0.22	J
Silver	2	110	0.36	U	0.37	U	0.37	U	0.36	U	0.38	U	0.12	J
Sodium	NS	NS	240		215		214		159	J	300		199	
Thallium	NS	NS	0.094	J	0.092	J	0.1	J	0.089	J	0.089	J	0.092	J
Vanadium	NS	NS	15.3		21.8		22.1		20.2		18.2		27.2	
Zinc	**109**	6,600	47.9		41		40.1		33		39.7		**142**	

Table 6A
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		AKRF Sample ID	RI-SB-14_4-6_20260429		RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429	
		Lab Sample ID	460-349933-8		460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,000		2,630		6,180		6,720		4,110		4,030	
Antimony	NS	NS	0.92	U	0.86	U	0.067	J	0.96	U	0.77	U	0.87	U
Arsenic	13	16	0.84	J	0.5	J	2.5		1		1.3		0.77	J
Barium	410	410	23.3		18.9		62		48.9		31		25.2	
Beryllium	4.4	43	0.16	J	0.11	J	0.22	J	0.25	J	0.26	J	0.19	J
Cadmium	2.5	2.5	0.46	U	0.43	U	0.12	J	0.48	U	0.38	U	0.43	U
Calcium	NS	NS	601		577		26,200		2,410		12,300		1,760	
Chromium, Hexavalent	1	1	0.99	U	0.98	U	1	U	1	U	1	U	1	U
Chromium, Total	NS	NS	5.1		6.6		12.1		31.9		16.4		12.7	
Cobalt	NS	NS	2.2		2.3		4.6		8.5		5.1		4	
Copper	**50**	280	9.2		5.6		17		**56.7**		21		11	
Iron	NS	NS	4,650		5,570		11,700		13,300		9,970		8,530	
Lead	**63**	400	1.8		1.4		34.5		4.6		16.4		20.8	J
Magnesium	NS	NS	1,460		1,130		4,350		4,830		8,210		2,850	
Manganese	1,600	2,000	184		125		256		330		262		203	
Mercury	**0.18**	0.3	0.016	U	0.015	U	0.065		0.016	U	0.031		0.017	U
Nickel	30	320	5.7		5.2		12.4		17.2		10.9		9.4	
Potassium	NS	NS	494		405		1,280		1,150		824		795	
Selenium	3.9	110	1.1	U	1.1	U	0.11	J	1.2	U	0.96	U	1.1	U
Silver	2	110	0.37	U	0.34	U	0.34	U	0.38	U	0.31	U	0.35	U
Sodium	NS	NS	86.6	J	102		375		621		297		260	
Thallium	NS	NS	0.046	J	0.34	U	0.078	J	0.091	J	0.061	J	0.05	J
Vanadium	NS	NS	9		7.3		19.7		30.4		16.3		13.8	
Zinc	**109**	6,600	12.1		11.1		42.3		50.5		32.8		22.3	

Table 6A
Ikos Senior Living
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Soil Analytical Results of Metals

		AKRF Sample ID	RI-DUP-03_20260429		RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-14		460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,840		40	U	40	U	40	U	40	U
Antimony	NS	NS	0.86	U	2	U	2	U	2	U	2	U
Arsenic	13	16	0.82	J	2	U	2	U	2	U	2	U
Barium	410	410	33.4		4	U	4	U	4	U	4	U
Beryllium	4.4	43	0.18	J	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	2.5	2.5	0.43	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	NS	2,040	J	500	U	453	J	500	U	500	U
Chromium, Hexavalent	1	1	1	U	10	U	10	U	10	U	10	U
Chromium, Total	NS	NS	8.2		4	U	4	U	4	U	4	U
Cobalt	NS	NS	4		2	U	2	U	2	U	2	U
Copper	**50**	280	10.3		4	U	4	U	4	U	4	U
Iron	NS	NS	8,050		120	U	120	U	120	U	120	U
Lead	**63**	400	2.6	J	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	NS	NS	2,560		200	U	248		200	U	200	U
Manganese	1,600	2,000	185		8	U	8	U	8	U	8	U
Mercury	**0.18**	0.3	0.015	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	30	320	8.1		4	U	4	U	4	U	4	U
Potassium	NS	NS	875		200	U	200	U	200	U	200	U
Selenium	3.9	110	1.1	U	2.5	U	2.5	U	2.5	U	2.5	U
Silver	2	110	0.35	U	2	U	2	U	2	U	2	U
Sodium	NS	NS	224		500	U	566		500	U	500	U
Thallium	NS	NS	0.058	J	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	NS	12.5		4	U	4	U	4	U	4	U
Zinc	**109**	6,600	17.7		16	U	16	U	16	U	16	U

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003		SB-03_0-2_20221003		SB-03_31-33_20221003	
		Lab Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2		460-266752-3		460-266752-4	
		Sample Date	10/5/2022		10/5/2022		10/3/2022		10/3/2022		10/3/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,960		2,340		4,180		2,810		6,790		3,030	
Antimony	NS	NS	0.25	J	0.81	U	1	UJ	0.94	U	0.16	J	1	U
Arsenic	13	16	2.2		0.62	J	1.5		0.61	J	2.5		0.86	J
Barium	410	410	35.1		20.7		36.3		23.4		62.6		19.1	
Beryllium	4.4	43	0.32	J	0.12	J	0.24	J	0.23	J	0.36	J	0.16	J
Cadmium	2.5	2.5	0.098	J	0.81	U	0.14	J	0.11	J	0.21	J	1	U
Calcium	NS	NS	5,840		7,590		7,730		21,600		32,300		1,560	
Chromium, Hexavalent	1	1	2.1	U	2	U	2.1	U	2.1	U	2.3	U	2.2	U
Chromium, Total	NS	NS	16.7		8		9.5		8.3		16.4		10.1	
Cobalt	NS	NS	5.2		2.9		3.7		2.9		5		2.6	
Copper	**50**	280	15.2		6.8		12.5		9.5		23.3		8.2	
Iron	NS	NS	10,500		5,240		7,870		6,500		11,300		6,720	
Lead	**63**	400	19.1		2.8		13		4		**81.7**		2.7	
Magnesium	NS	NS	2,460		4,370		4,190		12,100		5,740		1,940	
Manganese	1,600	2,000	338		183		207	JK	168		216		177	
Mercury	**0.18**	0.3	0.018		0.016	U	0.15		0.07		0.077		0.071	
Nickel	30	320	12.1		5.7		8.8		6.7		13.5		6.4	
Potassium	NS	NS	714		383		744		522		1,360		510	
Selenium	3.9	110	1.1	U	1	U	0.16	J	0.17	J	0.18	J	1.2	U
Silver	2	110	0.35	U	0.32	U	0.41	U	0.38	U	0.44	U	0.4	U
Sodium	NS	NS	152		117		275		201		309		161	
Thallium	NS	NS	0.058	J	0.32	U	0.11	J	0.069	J	0.093	J	0.4	U
Vanadium	NS	NS	21.8		7.4		14.8		9.8		20.8		8.5	
Zinc	**109**	6,600	28.9		10.2		36.2		15.2		65.1		14.4	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20221003		SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004	
		Lab Sample ID	460-266752-5		460-317091-1		460-317091-2		460-266752-6		460-266826-1		460-266826-2	
		Sample Date	10/3/2022		12/11/2024		12/11/2024		10/3/2022		10/4/2022		10/4/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	9,180		6,570		5,950		4,170		6,680		3,380	
Antimony	NS	NS	0.49	J	0.93	U	0.81	J	1	U	0.3	J	1	U
Arsenic	13	16	4		2.4		4.5		1.3		6.9		0.72	J
Barium	410	410	78.8		40.5		117		35.4		119		22.4	
Beryllium	4.4	43	0.63		0.25	J	0.31	J	0.26	J	0.4	J	0.19	J
Cadmium	2.5	2.5	0.43	J	0.93	U	0.55	J	1	U	0.66	J	1	U
Calcium	NS	NS	9,950		6,550		4,010		1,230		18,600		18,100	
Chromium, Hexavalent	1	1	2.2	U	NR		NR		2.1	U	2.2	U	2.1	U
Chromium, Total	NS	NS	19.1		12.1		16.2		19.3		15.5		9.7	
Cobalt	NS	NS	9.6		4.7		5.7		4.6		5.3		3	
Copper	**50**	280	34.8		18.2		**50.5**		18.3		**63.1**		8.9	
Iron	NS	NS	20,700		10,800		17,100		10,400		13,600		6,800	
Lead	**63**	400	**80**		57.4		**237**		6.1		**283**		4.8	
Magnesium	NS	NS	4,900		3,950		3,410		2,050		5,510		9,550	
Manganese	1,600	2,000	689		203		299		268		265		190	
Mercury	**0.18**	0.3	**0.59**		0.062		0.084		0.018	U	0.094		0.017	U
Nickel	30	320	20.7		10.9		16.9		10.2		16.3		6.7	
Potassium	NS	NS	2,720		968		741		826		1,050		694	
Selenium	3.9	110	0.35	J	1.2	U	0.27	J	1.3	U	0.48	J	1.3	U
Silver	2	110	0.43	U	0.37	U	0.13	J	0.4	U	0.25	J	0.41	U
Sodium	NS	NS	301		88.9	J	90.8	J	199		444		175	
Thallium	NS	NS	0.21	J	0.073	J	0.091	J	0.07	J	0.13	J	0.41	U
Vanadium	NS	NS	31.6		20.5		31.6		15.3		28.1		12.5	
Zinc	**109**	6,600	107		50		**173**		27.3		**149**		16.4	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213	
		Lab Sample ID	460-266826-3		460-266826-4		460-266752-7		460-266752-8		460-317270-1		460-317270-2	
		Sample Date	10/4/2022		10/4/2022		10/3/2022		10/3/2022		12/13/2024		12/13/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	6,750		3,730		5,980		3,830		5,770		8,140	
Antimony	NS	NS	1	U	1	U	0.2	J	1	U	0.9	U	0.38	J
Arsenic	13	16	3.4		0.79	J	3.9		1		2.3		12.7	
Barium	410	410	37.3		23		66.6		29.2		55.4		51.8	
Beryllium	4.4	43	0.41	J	0.19	J	0.31	J	0.22	J	0.27	J	0.35	J
Cadmium	2.5	2.5	0.16	J	1	U	0.33	J	1	U	0.33	J	0.26	J
Calcium	NS	NS	8,910		22,200		27,200		6,370		24,400		2,100	
Chromium, Hexavalent	1	1	2.2	U	2.1	U	2.3	U	2.1	U	NR		NR	
Chromium, Total	NS	NS	12.3		9.1		15.1		10.2		10.7		14.4	
Cobalt	NS	NS	6		3.7		5.4		3.6		3.9		5.6	
Copper	**50**	280	27.7		9.6		39.8		15.4		23.4		**62.3**	
Iron	NS	NS	11,500		8,350		13,300		8,020		9,120		15,700	
Lead	**63**	400	30.4		2.2		**131**		13.7		44.3		62.5	
Magnesium	NS	NS	3,720		14,700		11,900		4,700		5,300		2,370	
Manganese	1,600	2,000	335		176		274		212		194		280	
Mercury	**0.18**	0.3	0.075		0.034		0.11		0.016	U	0.043		0.064	
Nickel	30	320	12.3		7.9		16.8		8.1		9.8		10.7	
Potassium	NS	NS	763		918		1,220		729		800		636	
Selenium	3.9	110	0.19	J	1.3	U	0.19	J	1.2	U	0.14	J	0.33	J
Silver	2	110	0.42	U	0.4	U	0.11	J	0.4	U	0.36	U	0.23	J
Sodium	NS	NS	281		281		402		170		192		65.9	J
Thallium	NS	NS	0.079	J	0.049	J	0.11	J	0.062	J	0.073	J	0.17	J
Vanadium	NS	NS	17.2		15.5		32.6		13.4		16		21.9	
Zinc	**109**	6,600	42.5		22.7		109		21.4		63.5		48.5	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212		SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212	
		Lab Sample ID	460-317270-3		460-317182-1		460-317182-2		460-317182-3		460-317182-4		460-317182-5	
		Sample Date	12/13/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	2,730		6,190		3,520		1,980		5,680		3,470	
Antimony	NS	NS	0.92	U	0.83	U	0.89	U	0.88	UJ	0.17	JL	0.9	U
Arsenic	13	16	0.99		3.4		0.82	J	0.36	J	2.2		0.95	
Barium	410	410	25.1		38.7		23.8		12.2		53.9		31.4	
Beryllium	4.4	43	0.12	J	0.22	J	0.19	J	0.12	J	0.26	JL	0.15	J
Cadmium	2.5	2.5	0.92	U	0.12	J	0.89	U	0.88	U	0.2	J	0.9	U
Calcium	NS	NS	1,380		20,300		783		18,800		5,860		1,240	
Chromium, Hexavalent	1	1	NR		NR		NR		NR		NR		NR	
Chromium, Total	NS	NS	3.1		11.4		6.9		4		14.6	JL	9.7	
Cobalt	NS	NS	0.75	J	5.5		3.2		1.7	J	4.9		3.1	
Copper	**50**	280	5.3		18.2		12.3		4.3		23.6		13.4	
Iron	NS	NS	11,100		11,700		7,520		3,700		11,400		6,230	
Lead	**63**	400	1.7		44.7		4.9		1.2		**379**		23.9	
Magnesium	NS	NS	422		4,060		1,720		9,170		5,110		1,820	
Manganese	1,600	2,000	263		178		184		129	JL	255		155	
Mercury	**0.18**	0.3	0.016	U	0.059		0.015	U	0.016	U	0.067		0.049	
Nickel	30	320	1.7	J	14.7		7.2		3.5		12.9		7.9	
Potassium	NS	NS	896		853		549		316		1,090		585	
Selenium	3.9	110	1.2	U	0.11	J	1.1	U	1.1	U	0.2	J	1.1	U
Silver	2	110	0.37	U	0.33	U	0.36	U	0.35	U	0.39	U	0.36	U
Sodium	NS	NS	256		521		234		152		371		249	
Thallium	NS	NS	0.044	J	0.059	J	0.039	J	0.35	U	0.086	J	0.048	J
Vanadium	NS	NS	2.5		15.3		8.5		5		19.5	J	10.8	
Zinc	**109**	6,600	44		43.8		16.6		10		62.8		39.3	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-6		460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	7,110		7,140		7,800		4,200		6,270		4,420	
Antimony	NS	NS	0.89	U	0.9	U	0.93	U	0.85	U	1	U	0.97	U
Arsenic	13	16	1.9		1.8		10		0.88		3.3		4.2	
Barium	410	410	41		30.6		62.9		35.3		68.1		29.8	
Beryllium	4.4	43	0.31	J	0.24	J	0.33	J	0.17	J	0.28	J	0.39	
Cadmium	2.5	2.5	0.89	U	0.9	U	0.33	J	0.85	U	0.2	J	0.12	J
Calcium	NS	NS	12,900		10,000		2,070		1,530		8,180		6,330	
Chromium, Hexavalent	1	1	NR		NR		NR		NR		NR		NR	
Chromium, Total	NS	NS	25		12.2		24.5		9.7		12.8		8.7	
Cobalt	NS	NS	6.6		6.1		8		3.8		4.1		4	
Copper	**50**	280	45.5		16.6		**52.8**		16.4		20.4		13.1	
Iron	NS	NS	18,000		11,300		15,300		8,180		9,960		8,470	
Lead	**63**	400	3.4		10.5		**94.5**		3		**109**		4.3	
Magnesium	NS	NS	6,260		3,730		3,730		2,290		4,210		4,930	
Manganese	1,600	2,000	309		213		353		224		177		219	
Mercury	**0.18**	0.3	0.016	U	0.054		0.1		0.016	U	0.024		0.016	U
Nickel	30	320	15.2		15.4		19.8		9.1		11		7.5	
Potassium	NS	NS	771		810		1,140		578		716		1,100	
Selenium	3.9	110	1.1	U	1.1	U	0.2	J	1.1	U	0.24	J	0.16	J
Silver	2	110	0.36	U	0.36	U	0.089	J	0.34	U	0.4	U	0.39	U
Sodium	NS	NS	862		308		289		188		149		181	
Thallium	NS	NS	0.068	J	0.063	J	0.12	J	0.053	J	0.077	J	0.075	J
Vanadium	NS	NS	44.5		25.4		32		12.9		21.7		12	
Zinc	**109**	6,600	30.4		27.1		**136**		17		74.3		29.8	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,880		6,520		8,030		4,700		5,890	
Antimony	NS	NS	0.88	U	0.16	J	0.89	U	0.91	U	0.19	J
Arsenic	13	16	0.81	J	7.2		2.7		3.5		3.5	
Barium	410	410	24.9		47.9		26.2		56		57.8	
Beryllium	4.4	43	0.15	J	0.28	J	0.27	J	0.22	J	0.28	J
Cadmium	2.5	2.5	0.88	U	0.15	J	0.89	U	0.31	J	0.33	J
Calcium	NS	NS	7,100		15,400		889		4,600		5,860	
Chromium, Hexavalent	1	1	NR		NR		NR		NR		NR	
Chromium, Total	NS	NS	8.3		10.7		14.9		15.9		15.1	
Cobalt	NS	NS	3.6		4.2		4.9		4.6		5.8	
Copper	**50**	280	17.4		30.6		15.4		25.5		41.2	
Iron	NS	NS	7,990		12,000		11,300		9,250		10,900	
Lead	**63**	400	4.6		41.8		6.2		**72**		**131**	
Magnesium	NS	NS	5,350		4,760		2,280		4,030		3,870	
Manganese	1,600	2,000	164		169		210		443		270	
Mercury	**0.18**	0.3	0.025		**0.27**		0.018	U	0.079		0.11	
Nickel	30	320	7.4		10.3		11.3		11.4		12.9	
Potassium	NS	NS	1,010		580		875		746		878	
Selenium	3.9	110	1.1	U	0.2	J	0.12	J	0.16	J	0.2	J
Silver	2	110	0.35	U	0.091	J	0.36	U	0.084	J	0.3	J
Sodium	NS	NS	166		67.2	J	81	J	103		151	
Thallium	NS	NS	0.061	J	0.081	J	0.087	J	0.13	J	0.095	J
Vanadium	NS	NS	14.2		17.4		17.5		41.4		18.1	
Zinc	**109**	6,600	21.6		50.2		23.8		59.2		87.7	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024	
		Dilution Factor	1		1	
		Unit	mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q
Aluminum	NS	NS	5,480		5,720	
Antimony	NS	NS	0.93	U	0.18	J
Arsenic	13	16	2.7		3.3	
Barium	410	410	43.5		57.8	
Beryllium	4.4	43	0.25	J	0.27	J
Cadmium	2.5	2.5	0.2	J	0.25	J
Calcium	NS	NS	4,540		3,950	
Chromium, Hexavalent	1	1	NR		NR	
Chromium, Total	NS	NS	17		13.8	
Cobalt	NS	NS	4.7		4.8	
Copper	**50**	280	21.9		29.1	
Iron	NS	NS	9,580		10,900	
Lead	**63**	400	49.6		**90**	
Magnesium	NS	NS	3,290		3,120	
Manganese	1,600	2,000	206		239	
Mercury	**0.18**	0.3	0.049		0.043	
Nickel	30	320	12.2		12	
Potassium	NS	NS	890		871	
Selenium	3.9	110	1.2	U	0.17	J
Silver	2	110	0.37	U	0.087	J
Sodium	NS	NS	165		184	
Thallium	NS	NS	0.067	J	0.08	J
Vanadium	NS	NS	16.2		19.5	
Zinc	**109**	6,600	55		**126**	

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350979-1		460-350979-2		460-350979-3		460-350979-4		460-350979-5		460-350979-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2	U	0.73		0.55		0.2	U	0.2	U	0.56	J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.062	J	0.11	J	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-02_0-0.17_20260429	RI-SB-02_0-2_20260429	RI-SB-02_2-4_20260429	RI-SB-02_15-17_20260429	RI-SB-02_28-30_20260429	RI-SB-03_0-0.17_20260427
		Lab Sample ID	460-349970-16	460-349970-17	460-349970-18	460-349970-19	460-349970-20	460-349776-22
		Sample Date	4/29/2026	4/29/2026	4/29/2026	4/29/2026	4/29/2026	4/27/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
3-Perfluoropropyl propanoic acid	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
6:2 Fluorotelomer sulfonate	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorobutanoic acid	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorodecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorododecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoroheptanesulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoroheptanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorohexanesulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorohexanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorononanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorooctanesulfonamide	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.63	0.2 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.16 U	0.24 U	0.13 J	0.11 J	0.44	0.33
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.16 U	0.24 U	0.16 U	0.29	0.22 U	0.2 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoropentanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorotetradecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorotridecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoroundecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349776-23		460-349776-24		460-349776-25		460-349776-31		460-349776-26		460-349776-27	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
3-Perfluoropropyl propanoic acid	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
6:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorobutanoic acid	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorononanoic acid	NS	NS	0.2	U	0.15	J	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.11	J	0.13	J	0.2	U	0.1	J	0.31		0.27	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.093	J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260427		RI-SB-04_28-30_20260427		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349776-28		460-349776-29		460-349776-30		460-350185-1		460-350185-2		460-350185-3	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
3-Perfluoropropyl propanoic acid	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.79		0.2	U	0.2	U	0.17	J	0.2		0.2	U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.29		0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-05_15-17_20260511	RI-SB-05_28-30_20260511	RI-SB-06_0-0.17_20260429	RI-SB-06_0-2_20260429	RI-SB-06_2-4_20260429	RI-SB-06_15-17_20260429
		Lab Sample ID	460-350802-1	460-350802-2	460-349970-1	460-349970-2	460-349970-3	460-349970-4
		Sample Date	5/11/2026	5/11/2026	4/29/2026	4/29/2026	4/29/2026	4/29/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorononanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.2 U	0.27	0.15 J	0.15 J	0.2 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-06_29-31_20260429	RI-SB-07_0-0.17_20260428	RI-SB-07_0-2_20260428	RI-SB-07_2-4_20260428	RI-SB-07_15-17_20260428	RI-SB-07_33-35_20260428
		Lab Sample ID	460-349970-5	460-349867-1	460-349867-2	460-349867-3	460-349867-4	460-349867-5
		Sample Date	4/29/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.19 UJ	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorononanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.16 J	0.15 J	0.34	0.12 J	0.13 J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.12 J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.19 UJ	0.2 U	0.2 U	0.19 U	0.2 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-DUP-02_20260428	RI-SB-08_0-0.17_20260501	RI-SB-08_0-2_20260501	RI-SB-08_2-4_20260501	RI-SB-08_15-17_20260512	RI-SB-08_36-38_20260512
		Lab Sample ID	460-349867-6	460-350185-4	460-350185-5	460-350185-6	460-350894-1	460-350894-2
		Sample Date	4/28/2026	5/1/2026	5/1/2026	5/1/2026	5/12/2026	5/12/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.23	0.52	0.48	0.15 J	0.19 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.19 U	0.3	0.22	0.077 J	0.19 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349776-1		460-349776-2		460-349776-3		460-349776-4		460-349776-5		460-349776-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
3-Perfluoroheptyl propanoic acid	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
3-Perfluoropropyl propanoic acid	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
8:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.56		0.49		0.22		0.12	J	0.2	U	0.2	U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-09_12-14_20260427	RI-SB-09_14-16_20260427	RI-SB-09_16-18_20260427	RI-SB-09_18-20_20260427	RI-SB-09_20-22_20260427	RI-SB-09_22-24_20260427
		Lab Sample ID	460-349776-7	460-349776-8	460-349776-9	460-349776-10	460-349776-11	460-349776-12
		Sample Date	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/27/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorononanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.11 J	0.19 U	0.069 J	0.2 U	0.19 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349776-13		460-349776-14		460-349776-15		460-349776-16		460-349776-17		460-349776-18	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.084	J
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.58	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.19	U	0.36		0.13	J	0.2	U	0.06	J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
		Lab Sample ID	460-349776-19		460-349776-20		460-349776-21		460-349867-7		460-349867-8		460-349867-9	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.9		0.2	U	0.19	U	0.2	U	0.19	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorodecanoic acid	NS	NS	0.12	U	1.5		0.084	J	0.19	U	0.2	U	0.19	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.22		0.12	J	0.19	U	0.2	U	0.19	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.1	J	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorononanoic acid	NS	NS	0.2	U	0.8		0.22		0.19	U	0.2	U	0.19	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.25		0.2	U	0.15	J	0.2	U	0.19	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**1.57**		**2.34**		0.28		0.51		0.13	J	**1.02**	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.29		**1.54**		**1.04**		0.19	U	0.2	U	0.13	J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-11_4-6_20260428	RI-SB-12_0-0.17_20260428	RI-SB-12_4-6_20260428	RI-SB-12_6-8_20260428	RI-SB-12_8-10_20260428	RI-SB-13_0-0.17_20260428
		Lab Sample ID	460-349867-10	460-349867-11	460-349867-12	460-349867-13	460-349867-14	460-349867-15
		Sample Date	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.093 J	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**1.63**	0.83	0.19	0.11 J	0.19 U	0.18 J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.37	0.08 J	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
		Lab Sample ID	460-349867-16		460-349867-17		460-349867-18		460-349970-6		460-349970-7		460-349970-8	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.38		0.2	U	0.19	U	0.098	J	0.67		0.12	J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19	U	0.11	J	0.14	J	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429			
		Lab Sample ID	460-349970-9		460-349970-10		460-349970-11		460-349970-12			
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026			
		Dilution Factor	1		1		1		1			
		Unit	ppb		ppb		ppb		ppb			
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
3-Perfluoroheptyl propanoic acid	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.39	U	0.39	U	NR		0.77	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.39	U	0.39	U	NR	
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.39	U	0.39	U	NR	
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.39	U	0.39	U	NR		0.77	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorodecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorododecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoroheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorohexanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorononanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2	U	0.098	J	0.33		0.21		NR	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoropentanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorotridecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoroundecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.39	U	0.39	U	0.39	U	NR	

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-15_15-17_20260429		RI-DUP-03_20260429	RI-FB-01_20260428	RI-FB-02_20260429
		Lab Sample ID	460-349970-13		460-349970-14	460-349867-19	460-349970-15
		Sample Date	4/29/2026		4/29/2026	4/28/2026	4/29/2026
		Dilution Factor	1		1	1	1
		Unit	ppb		ppb	ppt	ppt
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99 U	NR	1 U	0.00747 U	0.00766 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99 U	NR	1 U	0.00747 U	0.00766 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99 U	NR	1 U	0.00747 U	0.00766 U
3-Perfluoroheptyl propanoic acid	NS	NS	NR	1.91 U	1 U	0.00747 U	0.00766 U
3-Perfluoropropyl propanoic acid	NS	NS	NR	0.77 UJ	0.4 U	0.00299 U	0.00306 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
6:2 Fluorotelomer sulfonate	NS	NS	0.4 U	NR	0.4 U	0.00299 U	0.00306 U
8:2 Fluorotelomer sulfonate	NS	NS	0.4 U	NR	0.4 U	0.00299 U	0.00306 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro-3-methoxypropanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro-4-methoxybutanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorobutanoic acid	NS	NS	NR	0.77 U	0.4 U	0.00299 U	0.00306 U
Perfluorodecanesulfonic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorodecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorododecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoroheptanesulfonic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoroheptanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorohexanesulfonic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorohexanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorononanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorooctanesulfonamide	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2 U	NR	0.25 J	0.00149 U	0.00153 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoropentanoic acid	NS	NS	NR	0.38 UJ	0.2 U	0.00149 U	0.00153 U
Perfluorotetradecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorotridecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoroundecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4 U	NR	0.4 U	0.00299 U	0.00306 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-FB-03_20260501		RI-FB-04_20260512	
		Lab Sample ID	460-350185-7		460-350894-3	
		Sample Date	5/1/2026		5/12/2026	
		Dilution Factor	1		1	
		Unit	ppt		ppt	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.00154	U	0.00135	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.00769	U	0.00677	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.00769	U	0.00677	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.00769	U	0.00677	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.00769	U	0.00677	U
3-Perfluoropropyl propanoic acid	NS	NS	0.00308	U	0.00271	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.00154	U	0.00135	U
6:2 Fluorotelomer sulfonate	NS	NS	0.00308	U	0.00271	U
8:2 Fluorotelomer sulfonate	NS	NS	0.00308	U	0.00271	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.00154	U	0.00135	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.00154	U	0.00135	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.00154	U	0.00135	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.00154	U	0.00135	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.00154	U	0.00135	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.00154	U	0.00135	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.00154	U	0.00135	U
Perfluorobutanoic acid	NS	NS	0.00308	U	0.00271	U
Perfluorodecanesulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluorodecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.00154	U	0.00135	U
Perfluorododecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoroheptanesulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluoroheptanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorohexanesulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluorohexanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.00154	U	0.00135	U
Perfluorononanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorooctanesulfonamide	NS	NS	0.00154	U	0.00135	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.00154	U	0.00135	U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.00154	U	0.00135	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.00154	U	0.00135	U
Perfluoropentanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorotetradecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorotridecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoroundecanoic acid	NS	NS	0.00154	U	0.00135	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.00308	U	0.00271	U

Table 7B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	SB-08_0-2_20241213	
		Lab Sample ID	460-317268-1	
		Sample Date	12/13/2024	
		Dilution Factor	1	
		Unit	ppb	
Compound	**UUGV**	**RRGV**	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.73	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1.82	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1.82	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	4.55	U
3-Perfluoroheptyl propanoic acid	NS	NS	4.55	U
3-Perfluoropropyl propanoic acid	NS	NS	0.91	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.73	U
6:2 Fluorotelomer sulfonate	NS	NS	0.73	U
8:2 Fluorotelomer sulfonate	NS	NS	0.73	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.73	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.18	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.18	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.18	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.18	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.36	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.36	UJ
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.73	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.36	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.36	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.18	U
Perfluorobutanoic acid	NS	NS	0.73	U
Perfluorodecanesulfonic acid	NS	NS	0.18	U
Perfluorodecanoic acid	NS	NS	0.18	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.18	U
Perfluorododecanoic acid	NS	NS	0.18	U
Perfluoroheptanesulfonic acid	NS	NS	0.18	U
Perfluoroheptanoic acid	NS	NS	0.18	U
Perfluorohexanesulfonic acid	NS	NS	0.18	U
Perfluorohexanoic acid	NS	NS	0.18	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.18	U
Perfluorononanoic acid	NS	NS	0.11	J
Perfluorooctanesulfonamide	NS	NS	0.18	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**2.17**	**J**
Perfluorooctanoic acid (PFOA)	0.66	33	0.18	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.18	U
Perfluoropentanoic acid	NS	NS	0.36	U
Perfluorotetradecanoic acid	NS	NS	0.18	U
Perfluorotridecanoic acid	NS	NS	0.18	U
Perfluoroundecanoic acid	NS	NS	0.18	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.73	U

Table 8A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of VOCs

	AKRF Sample ID	RI-MW-01D_20260520		RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05D_20260520		RI-MW-05S_20260520	
	Lab Sample ID	460-351476-2		460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351476-4		460-351469-2	
	Sample Date	5/20/2026		5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/20/2026	
	Dilution Factor	1		1		1		2		2		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	0.2	U	0.2	U	0.2	U	0.4	U	0.4	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,1,2-Trichloroethane	1	0.58	U	0.58	U	0.58	U	1.2	U	1.2	U	0.58	U	0.58	U
1,1-Dichloroethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2,3-Trichlorobenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dichloroethane	0.6	0.3	U	0.3	U	0.3	U	0.6	U	0.6	U	0.3	U	0.3	U
1,2-Dichloropropane	1	0.92	U	0.92	U	0.92	U	1.8	U	1.8	U	0.92	U	0.92	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1	U	2	U	2	U	1	U	1	U
2-Hexanone	50	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Acetone	50	5.1		5	U	5	U	10	U	10	U	5	U	5	U
Benzene	1	0.45	U	0.45	U	0.45	U	0.9	U	0.9	U	0.45	U	0.45	U
Bromochloromethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Bromodichloromethane	50	0.98	U	0.98	U	0.98	U	0.83	J	2	U	0.98	U	0.49	J
Bromoform	50	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Bromomethane	5	1	U	1.2	JK	1	U	2	U	2	U	1	U	1	U
Carbon Disulfide	60	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Chlorobenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Chloroform	**7**	**8.1**		6.3		6.1		**18**		6.9		3.6		**23**	
Chloromethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	1	U	1	U	**14**		**55**		**7**		1	U	**7.2**	
Cis-1,3-Dichloropropene	NS	0.45	U	0.45	U	0.45	U	0.9	U	0.9	U	0.45	U	0.45	U
Cyclohexane	NS	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Dibromochloromethane	50	0.78	U	0.78	U	0.78	U	1.6	U	1.6	U	0.78	U	0.78	U
Dichlorodifluoromethane	5	1	U	1	UJ	1	U	2	U	2	U	1	U	1	U
Ethylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
M,P-Xylenes	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Methyl Acetate	NS	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Methylcyclohexane	NS	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Methylene Chloride	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
N-Butylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
N-Propylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Styrene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
T-Butylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Tetrachloroethylene (PCE)	**5**	**22**		**43**		**350**		**860**		**600**		**12**		**120**	
Toluene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U	1	U	2	U	2	U	1	U	0.59	J
Trans-1,3-Dichloropropene	NS	0.45	U	0.45	U	0.45	U	0.9	U	0.9	U	0.45	U	0.45	U
Trichloroethylene (TCE)	**5**	0.45		0.55		4.5		**49**		3.4		0.33		2.5	
Trichlorofluoromethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Vinyl Chloride	2	1	U	1	UJ	1	U	2	U	2	U	1	U	1	U
Xylenes, Total	NS	2	U	2	U	2	U	4	U	4	U	2	U	2	U

Table 8A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of VOCs

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513		TB_20260513		TB_20260520	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7		460-351008-8		460-351476-6	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	2		2		1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	0.4	U	0.4	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1.2	U	1.2	U	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U
1,1-Dichloroethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	3	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	0.6	U	0.6	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
1,2-Dichloropropane	1	1.8	U	1.8	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
1,3,5-Trimethylbenzene (Mesitylene)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	3	2	U	2	U	1	U	1	U	1	U	1	U	1	U
2-Hexanone	50	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Acetone	50	10	U	9.2	J	5	U	5	U	5	U	5	U	5	U
Benzene	1	0.9	U	0.9	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Bromochloromethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	50	0.73	J	2	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Bromoform	50	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Bromomethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Carbon Disulfide	60	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Chloroform	**7**	**9.8**		**9.2**		4		3.9		1	U	1	U	1	U
Chloromethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	**53**		**52**		**6.8**		1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	NS	0.9	U	0.9	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Cyclohexane	NS	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	50	1.6	U	1.6	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U
Dichlorodifluoromethane	5	2	U	2	U	1	U	1	UJ	1	U	1	U	1	U
Ethylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	NS	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
N-Butylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Styrene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	10	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	**5**	**480**		**480**		**160**		**15**		0.4	U	0.4	U	0.4	U
Toluene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	5	4.4	J	2.1	J	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	0.9	U	0.9	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Trichloroethylene (TCE)	**5**	**12**		**12**		2.2		0.27	J	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	2	2	U	2	U	1	U	1	UJ	1	U	1	U	1	U
Xylenes, Total	NS	4	U	4	U	2	U	2	U	2	U	2	U	2	U

Table 8B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of VOCs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004		TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6		460-317271-1		460-317271-2		460-317271-3	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022		12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	1	U	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	50	50		5	U	5	U	5	U	5	U	5	U	5	U
Benzene	1	0.3	J	1	U	1	U	1	U	1	U	1	U	1	U
Bromochloromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	50	1	U	1	U	1	U	0.5	J	0.35	J	1	U	0.34	J
Bromoform	50	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromomethane	5	1	U	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U
Carbon Disulfide	60	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	**7**	1.6		2.4		2.7		**9.2**		2.9		3.9		1.7	
Chloromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	**14**		**6.7**		0.41	J	2.3		1	U	3.2		4.7	
Cis-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	50	1	U	1	U	1	U	1	U	0.48	J	1	U	0.47	J
Dichlorodifluoromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	9.4		5	U	5	U	5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
N-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Styrene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	**5**	**100**		**19**		**100**		**330**		**60**		**270**		**310**	
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethylene (TCE)	5	2.1		1	U	0.69	J	1.9		1	U	1.5		2.5	
Trichlorofluoromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	2	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U

Table 8B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of VOCs

	AKRF Sample ID	TB_20221003		TB-01_20241213	
	Lab Sample ID	460-266752-10		460-317271-4	
	Sample Date	10/3/2022		12/13/2024	
	Dilution Factor	1		1	
	Unit	µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U
1,2,3-Trichlorobenzene	5	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U
1,2-Dichloropropane	1	1	UJ	1	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U
2-Hexanone	50	5	U	5	U
Acetone	50	5	U	5	U
Benzene	1	1	U	1	U
Bromochloromethane	5	1	U	1	U
Bromodichloromethane	50	1	U	1	U
Bromoform	50	1	U	1	U
Bromomethane	5	1	UJ	1	U
Carbon Disulfide	60	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U
Chlorobenzene	5	1	U	1	U
Chloroethane	5	1	U	1	U
Chloroform	**7**	1	U	1	U
Chloromethane	5	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	1	U	1	U
Cis-1,3-Dichloropropene	NS	1	U	1	U
Cyclohexane	NS	1	U	1	U
Dibromochloromethane	50	1	U	1	U
Dichlorodifluoromethane	5	1	U	1	U
Ethylbenzene	5	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U
M,P-Xylenes	5	0.47	J	1	U
Methyl Acetate	NS	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U
Methylcyclohexane	NS	1	U	1	U
Methylene Chloride	5	0.32	J	1	U
N-Butylbenzene	5	1	U	1	U
N-Propylbenzene	5	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U
Styrene	5	1	U	1	U
T-Butylbenzene	5	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U
Tetrachloroethylene (PCE)	**5**	1	U	1	U
Toluene	5	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U
Trans-1,3-Dichloropropene	NS	1	U	1	U
Trichloroethylene (TCE)	5	1	U	1	U
Trichlorofluoromethane	5	1	U	1	U
Vinyl Chloride	2	1	U	1	U
Xylenes, Total	NS	2	U	2	U

Table 9A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520		RI-MW-06_20260513		RI-MW-X_20260513	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2		460-351008-3		460-351007-4	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dioxane (P-Dioxane)	0.35	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2,3,4,6-Tetrachlorophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	NS	3	U	3	U	3	U	3	U	3	U	3	U	3	U
2,4-Dichlorophenol	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	50	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrophenol	10	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrotoluene	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Chloronaphthalene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylphenol (O-Cresol)	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
3- And 4- Methylphenol (Total)	NS	10	UJ	10	U	10	U	10	U	10	UJ	10	U	10	U
3,3'-Dichlorobenzidine	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4,6-Dinitro-2-Methylphenol	NS	20	U	20	U	20	U	20	U	20	U	20	U	20	U
4-Bromophenyl Phenyl Ether	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-Methylphenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl Phenyl Ether	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methylphenol (P-Cresol)	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Nitrophenol	NS	20	UJ	20	U	20	U	20	U	20	UJ	20	U	20	U
Acenaphthene	20	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetophenone	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Aniline	5	6	U	6	U	6	U	6	U	6	U	6	U	6	U
Anthracene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Atrazine	7.5	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Benzaldehyde	NS	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(a)Anthracene	0.002	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(a)Pyrene	ND	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(b)Fluoranthene	0.002	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Benzo(g,h,i)Perylene	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	0.002	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Benzyl Butyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Biphenyl (Diphenyl)	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethoxy) Methane	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bis(2-Chloroisopropyl) Ether	5	5	UJ	5	U	5	U	5	U	5	UJ	5	U	5	U
Bis(2-Ethylhexyl) Phthalate	5	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Caprolactam	NS	10	UJ	10	U	10	U	10	U	10	UJ	10	U	10	U
Carbazole	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chrysene	0.002	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Dibenz(a,h)Anthracene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibenzofuran	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Diethyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dimethyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-N-Butyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-N-Octylphthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluoranthene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluorene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	0.04	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene	5	5	UJ	5	U	5	U	5	U	5	UJ	5	U	5	U
Hexachloroethane	5	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-c,d)Pyrene	0.002	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Isophorone	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Nitrobenzene	0.4	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
N-Nitrosodi-N-Propylamine	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
N-Nitrosodiphenylamine	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	NS	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Phenanthrene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Phenol	1	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pyrene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U

Table 9A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	5	5	U	5	U	5	U
1,4-Dioxane (P-Dioxane)	0.35	0.2	U	0.2	U	0.2	U
2,3,4,6-Tetrachlorophenol	NS	10	U	10	U	10	U
2,4,5-Trichlorophenol	NS	10	U	10	U	10	U
2,4,6-Trichlorophenol	NS	3	U	3	U	3	U
2,4-Dichlorophenol	5	5	U	5	U	5	U
2,4-Dimethylphenol	50	1.6	U	1.6	U	1.6	U
2,4-Dinitrophenol	10	1.6	U	1.6	U	1.6	U
2,4-Dinitrotoluene	5	5	U	5	U	5	U
2,6-Dinitrotoluene	5	2	U	2	U	2	U
2-Chloronaphthalene	10	10	U	10	U	10	U
2-Chlorophenol	NS	10	U	10	U	10	U
2-Methylnaphthalene	NS	10	U	10	U	10	U
2-Methylphenol (O-Cresol)	NS	10	U	10	U	10	U
2-Nitroaniline	5	5	U	5	U	5	U
2-Nitrophenol	NS	10	U	10	U	10	U
3- And 4- Methylphenol (Total)	NS	10	U	10	UJ	10	U
3,3'-Dichlorobenzidine	5	5	U	5	U	5	U
3-Nitroaniline	5	5	U	5	U	5	U
4,6-Dinitro-2-Methylphenol	NS	20	U	20	U	20	U
4-Bromophenyl Phenyl Ether	NS	10	U	10	U	10	U
4-Chloro-3-Methylphenol	NS	10	U	10	U	10	U
4-Chloroaniline	5	5	U	5	U	5	U
4-Chlorophenyl Phenyl Ether	NS	10	U	10	U	10	U
4-Methylphenol (P-Cresol)	NS	10	U	10	U	10	U
4-Nitroaniline	5	5	U	5	U	5	U
4-Nitrophenol	NS	20	U	20	UJ	20	U
Acenaphthene	20	10	U	10	U	10	U
Acenaphthylene	NS	10	U	10	U	10	U
Acetophenone	NS	10	U	10	U	10	U
Aniline	5	6	U	6	U	6	U
Anthracene	50	10	U	10	U	10	U
Atrazine	7.5	2	U	2	U	2	U
Benzaldehyde	NS	10	UJ	10	UJ	10	UJ
Benzo(a)Anthracene	0.002	1	U	1	U	1	U
Benzo(a)Pyrene	ND	1	U	1	U	1	U
Benzo(b)Fluoranthene	0.002	2	U	2	U	2	U
Benzo(g,h,i)Perylene	NS	10	U	10	U	10	U
Benzo(k)Fluoranthene	0.002	1	U	1	U	1	U
Benzyl Butyl Phthalate	50	10	U	10	U	10	U
Biphenyl (Diphenyl)	5	5	U	5	U	5	U
Bis(2-Chloroethoxy) Methane	5	5	U	5	U	5	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1	U	1	U	1	U
Bis(2-Chloroisopropyl) Ether	5	5	U	5	UJ	5	U
Bis(2-Ethylhexyl) Phthalate	5	2	U	2	U	2	U
Caprolactam	NS	10	U	10	UJ	10	U
Carbazole	NS	10	U	10	U	10	U
Chrysene	0.002	2	U	2	U	2	U
Dibenz(a,h)Anthracene	NS	1	U	1	U	1	U
Dibenzofuran	NS	10	U	10	U	10	U
Diethyl Phthalate	50	10	U	10	U	10	U
Dimethyl Phthalate	50	10	U	10	U	10	U
Di-N-Butyl Phthalate	50	10	U	10	U	10	U
Di-N-Octylphthalate	50	10	U	10	U	10	U
Fluoranthene	50	10	U	10	U	10	U
Fluorene	50	10	U	10	U	10	U
Hexachlorobenzene	0.04	1	U	1	U	1	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene	5	5	U	5	UJ	5	U
Hexachloroethane	5	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-c,d)Pyrene	0.002	2	U	2	U	2	U
Isophorone	50	10	U	10	U	10	U
Naphthalene	10	2	U	2	U	2	U
Nitrobenzene	0.4	0.4	U	0.4	U	0.4	U
N-Nitrosodi-N-Propylamine	NS	1	U	1	U	1	U
N-Nitrosodiphenylamine	50	10	U	10	U	10	U
Pentachlorophenol	NS	20	U	20	U	20	U
Phenanthrene	50	10	U	10	U	10	U
Phenol	1	10	U	10	U	10	U
Pyrene	50	10	U	10	U	10	U

Table 9B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003			TW-03_20221004	TW-04_20221004	TW-08_20241213	TW-09_20241213	TW-10_20241213
	Lab Sample ID	460-266877-3		460-266752-9			460-266826-5	460-266826-6	460-317271-1	460-317271-2	460-317271-3
	Sample Date	10/5/2022		10/3/2022			10/4/2022	10/4/2022	12/13/2024	12/13/2024	12/13/2024
	Dilution Factor	1		1		5	1	1	1	1	1
	Unit	µg/L		µg/L		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	10	U	10	U	NR	10 U	10 U	0.1 J	0.2 U	0.13 J
2,3,4,6-Tetrachlorophenol	NS	10	UJ	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	10	40	UJ	40	U	NR	40 UJ	40 UJ	40 U	40 U	40 U
2,4-Dinitrotoluene	5	10	UJ	10	UJ	NR	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5	2	U	2	U	NR	2 U	2 U	2 U	2 U	2 U
2-Chloronaphthalene	10	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (O-Cresol)	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5	10	UJ	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
3- And 4- Methylphenol (Total)	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10	U	10	U	NR	10 UJ	10 UJ	10 U	10 U	10 U
3-Nitroaniline	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20	U	20	U	NR	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (P-Cresol)	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	20	UJ	20	U	NR	20 U	20 U	20 U	20 U	20 U
Acenaphthene	20	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Acetophenone	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Atrazine	7.5	2	U	2	UJ	NR	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	NS	10	UJ	10	UJ	NR	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)Anthracene	**0.002**	**2.1**		1	U	NR	1 U	1 U	1 U	1 U	1 U
Benzo(a)Pyrene	**ND**	**1.6**		1	U	NR	1 U	1 U	1 U	1 U	1 U
Benzo(b)Fluoranthene	**0.002**	**2.2**		2	U	NR	2 U	2 U	2 U	2 U	2 U
Benzo(g,h,i)Perylene	NS	1.7	J	10	U	NR	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene	0.002	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Benzyl Butyl Phthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10	UJ	10	UJ	NR	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Bis(2-Ethylhexyl) Phthalate	**5**	**6.2**		2	U	NR	2 U	2 U	2 U	2 U	2 U
Caprolactam	NS	10	U	NR		98 D	10 U	10 U	18	21	16
Carbazole	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Chrysene	**0.002**	**2**		2	U	NR	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)Anthracene	NS	1	UJ	1	U	NR	1 UJ	1 UJ	1 U	1 U	1 U
Dibenzofuran	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Diethyl Phthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	10	U	10	U	NR	10 U	10 U	8.9 J	6.5 J	4.4 J
Di-N-Octylphthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	4	J	10	U	NR	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	0.5	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Hexachlorocyclopentadiene	5	10	U	10	U	NR	10 UJ	10 UJ	10 U	10 U	10 U
Hexachloroethane	5	2	U	2	U	NR	2 U	2 U	2 U	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	**0.002**	**1.6**	**J**	2	UJ	NR	2 UJ	2 UJ	2 U	2 U	2 U
Isophorone	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	2	U	2	U	NR	2 U	2 U	2 U	2 U	2 U
Nitrobenzene	0.4	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	NS	20	U	20	U	NR	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	2.6	J	10	U	NR	10 U	10 U	10 U	10 U	10 U
Phenol	1	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Pyrene	50	3.4	J	10	U	NR	10 U	10 U	10 U	10 U	10 U

Table 10A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PCBs

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1221 (Aroclor 1221)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1232 (Aroclor 1232)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1242 (Aroclor 1242)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1248 (Aroclor 1248)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1254 (Aroclor 1254)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1260 (Aroclor 1260)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1262 (Aroclor 1262)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1268 (Aroclor 1268)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Total PCBs	0.09	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 10A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PCBs

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1221 (Aroclor 1221)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1232 (Aroclor 1232)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1242 (Aroclor 1242)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1248 (Aroclor 1248)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1254 (Aroclor 1254)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1260 (Aroclor 1260)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1262 (Aroclor 1262)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1268 (Aroclor 1268)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Total PCBs	0.09	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 10B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of PCBs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1221 (Aroclor 1221)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1232 (Aroclor 1232)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1242 (Aroclor 1242)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1248 (Aroclor 1248)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1254 (Aroclor 1254)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1260 (Aroclor 1260)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1262 (Aroclor 1262)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1268 (Aroclor 1268)	NS	0.4	U	0.4	U	0.4	U	0.4	U
Total PCBs	0.09	0.4	U	0.4	U	0.4	U	0.4	U

Table 10B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of PCBs

AKRF Sample ID		TW-08_20241213		TW-09_20241213		TW-10_20241213	
Lab Sample ID		460-317271-1		460-317271-2		460-317271-3	
Sample Date		12/13/2024		12/13/2024		12/13/2024	
Dilution Factor		1		1		1	
Unit		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.4	U	0.4	U	0.4	U
PCB-1221 (Aroclor 1221)	NS	0.4	U	0.4	U	0.4	U
PCB-1232 (Aroclor 1232)	NS	0.4	U	0.4	U	0.4	U
PCB-1242 (Aroclor 1242)	NS	0.4	U	0.4	U	0.4	U
PCB-1248 (Aroclor 1248)	NS	0.4	U	0.4	U	0.4	U
PCB-1254 (Aroclor 1254)	NS	0.4	U	0.4	U	0.4	U
PCB-1260 (Aroclor 1260)	NS	0.4	U	0.4	U	0.4	U
PCB-1262 (Aroclor 1262)	NS	0.4	U	0.4	U	0.4	U
PCB-1268 (Aroclor 1268)	NS	0.4	U	0.4	U	0.4	U
Total PCBs	0.09	0.4	U	0.4	U	0.4	U

Table 11A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Table 11A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Table 11B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.5	U	0.5	U	0.5	U	0.5	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U	0.5	U

Table 11B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-317271-1		460-317271-2		460-317271-3	
	Sample Date	12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.5	U	0.5	U	0.5	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U

Table 12A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Total Metals

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	81.7		40	U	28.1	J	460		60.1	
Antimony	3	2	U	2	U	2	U	2	U	0.57	J
Arsenic	25	0.78	J	2	U	2	U	2	U	0.56	J
Barium	1,000	126		101		51.1		117		80.5	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	92,600		86,600		80,200		89,000		49,400	
Chromium, Total	50	4	U	1.9	J	4	U	4.3		4	U
Cobalt	NS	1.2	J	2	U	0.57	J	0.99	J	0.61	J
Copper	200	2.4	J	4	U	2.1	J	2	J	2.2	J
Iron	**300**	162		120	U	41.4	J	**839**		148	
Lead	25	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	**40,100**		33,100		20,800		33,300		15,900	
Manganese	**300**	209		13.5		274		43.1		**408**	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	1.4	J	4	U	4	U	1.6	J	2	J
Potassium	NS	6,300		3,000		2,100		2,970		4,230	
Selenium	10	2.2	J	2.4	J	1	J	2.2	J	1.9	J
Silver	50	2	U	2	U	2	U	2	U	2	U
Sodium	**20,000**	**123,000**		**151,000**		**32,800**		**165,000**		**103,000**	
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	1.3	J	4	U	4	U	1.7	J	4	U
Zinc	2,000	16	U	16	U	16	U	16	U	11.2	J

Table 12A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Total Metals

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	60		40	U	964		95.9		40	U
Antimony	3	2	U	2	U	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U	2	U	2	U
Barium	1,000	82.7		87.1		203		95.3		4	U
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	66,900		71,400		99,900		92,800		500	U
Chromium, Total	50	2.5	J	1.9	J	8.2		4	U	4	U
Cobalt	NS	0.53	J	0.41	J	0.96	J	1	J	2	U
Copper	200	4	U	4	U	3.7	J	2	J	4	U
Iron	**300**	127		120	U	**1,670**		**393**		120	U
Lead	25	1.2	U	1.2	U	1.2		1.2	U	1.2	U
Magnesium	**35,000**	24,200		25,400		25,200		**43,000**		200	U
Manganese	**300**	26.3		23.7		46.2		241		8	U
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	3.1	J	4	U	2.2	J	1.9	J	4	U
Potassium	NS	3,910		4,020		5,360		6,730		200	U
Selenium	10	2.7		2.6		2.4	J	2.5	U	2.5	U
Silver	50	2	U	2	U	2	U	2	U	2	U
Sodium	**20,000**	**147,000**		**158,000**		**169,000**		**106,000**		500	U
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	1	J	4	U	3.5	J	1.2	J	4	U
Zinc	2,000	16	U	16	U	6.6	J	4.5	J	16	U

Table 12B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Total Metals

AKRF Sample ID		TW-01_20221005				TW-02_20221003		TW-03_20221004		TW-04_20221004	
Lab Sample ID		460-266877-3				460-266752-9		460-266826-5		460-266826-6	
Sample Date		10/5/2022				10/3/2022		10/4/2022		10/4/2022	
Dilution Factor		1		5		1		1		1	
Unit		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NR		294,000		21.1	J	771		2,320	
Antimony	3	1.9	J	NR		2	U	2	U	2	U
Arsenic	**25**	**63.9**		NR		2	U	2	U	2	U
Barium	**1,000**	**3,540**		NR		103		140		171	
Beryllium	**3**	**14.2**		NR		0.8	U	0.8	U	0.16	J
Cadmium	5	5		NR		2	U	2	U	2	U
Calcium	NS	NR		913,000		88,000		116,000		88,700	
Chromium, Total	**50**	**3,390**		NR		4	U	5.5		14.6	
Cobalt	NS	325		NR		1.7	J	1.6	J	3.3	J
Copper	**200**	**1,340**		NR		4	U	3.7	J	8.6	
Iron	**300**	NR		**971,000**		120	U	**1,660**		**4,430**	
Lead	**25**	**857**		NR		1.2	U	2.7		1.6	
Magnesium	**35,000**	**355,000**		NR		33,700		**47,500**		33,100	
Manganese	**300**	NR		**24,600**		**439**		261		**1,090**	
Mercury	**0.7**	**1.7**		NR		0.2	U	0.2	U	0.2	U
Nickel	**100**	**922**		NR		4.3		4.3		11.7	
Potassium	NS	66,400		NR		3,480		5,380		8,380	
Selenium	10	1.5	J	NR		3.1		2.8		0.78	J
Silver	50	2.5		NR		2	U	2	U	2	U
Sodium	**20,000**	**74,600**		NR		**140,000**		**128,000**		**109,000**	
Thallium	**0.5**	**5.1**		NR		0.8	U	0.8	U	0.8	U
Vanadium	NS	707		NR		4	U	3.2	J	7.1	
Zinc	**2,000**	**2,640**		NR		16	U	6.7	J	11.9	J

Table 12B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Total Metals

	AKRF Sample ID	TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-317271-1		460-317271-2		460-317271-3	
	Sample Date	12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	98,100		311,000		134,000	
Antimony	3	0.69	J	2.2	J	0.71	J
Arsenic	**25**	23		**73.3**		**28.6**	
Barium	**1,000**	**1,620**		**4,580**		**1,700**	
Beryllium	**3**	**4.6**		**14**		**6.6**	
Cadmium	5	1.9	J	4		2.9	
Calcium	NS	532,000		585,000		780,000	
Chromium, Total	**50**	**303**		**1,350**		**429**	
Cobalt	NS	162		311		175	
Copper	**200**	**319**		**1,000**		**419**	
Iron	**300**	**185,000**		**667,000**		**292,000**	
Lead	**25**	**88.4**		**707**		**113**	
Magnesium	**35,000**	**164,000**		**370,000**		**295,000**	
Manganese	**300**	**9,530**		**18,400**		**7,990**	
Mercury	**0.7**	0.35		**1.1**		0.11	J
Nickel	**100**	**270**		**814**		**303**	
Potassium	NS	34,900		111,000		40,300	
Selenium	10	2.5		4	J	2.6	
Silver	50	2	U	4	U	2	U
Sodium	**20,000**	**82,900**		**122,000**		**123,000**	
Thallium	**0.5**	**0.61**	**J**	**1.6**		**0.75**	**J**
Vanadium	NS	304		913		427	
Zinc	**2,000**	596		**2,040**		826	

Table 13A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	40	U	30.9	J	40	U	40	U	15.7	J
Antimony	3	2	U	2	U	2	U	2	U	0.6	J
Arsenic	25	0.5	J	2	U	2	U	2	U	0.57	J
Barium	1,000	128		105		50.1		109		84.3	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	90,900		86,600		78,000		86,200		51,700	
Chromium, Total	50	4	U	4	U	4	U	4	U	4	U
Cobalt	NS	1	J	2	U	0.5	J	0.35	J	0.56	J
Copper	200	4	U	4	U	4	U	4	U	4	U
Iron	300	120	U	35.2	J	120	U	120	U	52.8	J
Lead	25	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	**38,700**		32,800		20,200		32,000		16,100	
Manganese	**300**	213		16.6		267		20		**418**	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	4	U	4	U	4	U	4	U	4	U
Potassium	NS	6,120		2,920		2,010		2,760		4,190	
Selenium	10	1.9	J	2.5		0.91	J	2	J	2	J
Silver	50	2	U	2	U	2	U	2	U	2	U
Sodium	**20,000**	**119,000**		**150,000**		**31,700**		**160,000**		**103,000**	
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	4	U	4	U	4	U	4	U	4	U
Zinc	2,000	16	U	16	U	16	U	16	U	8.9	J

Table 13A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	17.4	J	17.2	J	40	U	13	J
Antimony	3	2	U	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U	2	U
Barium	1,000	86.5		92.6		194		95.4	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	70,600		72,900		97,100		89,600	
Chromium, Total	50	4	U	1.7	J	3	J	4	U
Cobalt	NS	0.39	J	0.37	J	2	U	1	J
Copper	200	4	U	4	U	4	U	4	U
Iron	300	120	U	120	U	120	U	145	
Lead	25	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	25,300		25,800		23,700		**41,400**	
Manganese	**300**	23.8		28.3		11.7		249	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	1.4	J	4	U	4	U	4	U
Potassium	NS	4,000		4,080		4,950		6,670	
Selenium	10	2.7		3.1		2.6		2.5	U
Silver	50	2	U	2	U	2	U	2	U
Sodium	**20,000**	**158,000**		**168,000**		**164,000**		**99,700**	
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	4	U	4	U	4	U	4	U
Zinc	2,000	16	U	16	U	16	U	16	U

Table 13B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	40	U	40	U	233		797	
Antimony	3	1.9	J	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U	2	U
Barium	1,000	16.3		107		125		147	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	2	U	2	U	2	U	2	U
Calcium	NS	19,500		88,300		106,000		82,600	
Chromium, Total	50	4	U	4	U	4	U	3.9	J
Cobalt	NS	0.91	J	1.7	J	1.1	J	2.5	J
Copper	200	4	U	4	U	2.5	J	4.9	
Iron	**300**	120	U	120	U	**492**		**1,630**	
Lead	25	1.2	U	1.2	U	3.8		1.1	J
Magnesium	**35,000**	4,050		34,500		**45,900**		30,400	
Manganese	**300**	185		**450**		216		**1,020**	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	9.9		3.9	J	2.4	J	4.9	
Potassium	NS	4,310		3,590		4,950		7,610	
Selenium	10	2.5	U	2.9		2.2	J	0.85	J
Silver	50	2	U	2	U	2	U	2	U
Sodium	**20,000**	**35,300**		**141,000**		**127,000**		**107,000**	
Thallium	0.5	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium	NS	4	U	4	U	2	J	2.8	J
Zinc	2,000	16	U	16	U	16	U	16	U

Table 13B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-317271-1		460-317271-2		460-317271-3	
	Sample Date	12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	40	U	29.7	J	40	U
Antimony	3	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U
Barium	1,000	57.6		62.9		65.3	
Beryllium	3	0.8	U	0.8	U	0.8	U
Cadmium	5	2	U	2	U	2	U
Calcium	NS	57,900		92,700		47,500	
Chromium, Total	50	4	U	4	U	4	U
Cobalt	NS	2.4	J	4.8		1.5	J
Copper	200	4.6		2.6	J	5.1	
Iron	**300**	120	U	69.7	J	120	U
Lead	25	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	22,700		33,900		11,000	
Manganese	**300**	69		**412**		44.9	
Mercury	0.7	0.2	U	0.2	U	0.2	U
Nickel	100	1.7	J	4.8		3.1	J
Potassium	NS	5,100		4,910		4,780	
Selenium	10	1.6	J	2.2	J	1.3	J
Silver	50	2	U	2	U	2	U
Sodium	**20,000**	**87,500**		**134,000**		**97,700**	
Thallium	0.5	0.8	U	0.8	U	0.8	U
Vanadium	NS	4	U	4	U	4	U
Zinc	2,000	16	U	16	U	11.3	J

Table 14
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PFAS

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	ppt		ppt		ppt		ppt		ppt	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
3-Perfluoroheptyl propanoic acid	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
3-Perfluoropropyl propanoic acid	NS	2.76	U	2.92	U	2.88	U	3.22	U	2.69	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
6:2 Fluorotelomer sulfonate	NS	1.98	J	2.53	J	1.09	J	1.64	J	2.69	U
8:2 Fluorotelomer sulfonate	NS	2.76	U	2.92	U	2.88	U	3.22	U	2.69	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-ethyl perfluoro-1-octanesulfonamide	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-methyl perfluoro-1-octanesulfonamide	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro(2-Propoxypropanoic) Acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro-3-methoxypropanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro-4-methoxybutanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorobutanesulfonic acid (PFBS)	NS	6.19		7.21		2.9		6.92		2.95	
Perfluorobutanoic acid	NS	11.1		14.7		2.88	U	15.3		7.31	
Perfluorodecanesulfonic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorodecanoic acid	NS	1.38	U	1.46	U	0.72	J	1.61	U	1.35	U
Perfluorododecane sulfonate (PFDoDS)	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorododecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoroheptanesulfonic acid	NS	1.38	U	0.42	J	1.44	U	0.5	J	0.49	J
Perfluoroheptanoic acid	NS	10.4		12.1		6.08		13.2		4.57	
Perfluorohexanesulfonic acid	NS	11.1		9.74		5.86		9.79		3.75	
Perfluorohexanoic acid	NS	17.2		23		9.45		24		8.13	
Perfluorononanesulfonic Acid (Pfns)	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorononanoic acid	NS	0.7	J	1.67		3.31		1.46	J	4.6	
Perfluorooctanesulfonamide	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorooctanesulfonic acid (PFOS)	**2.7**	**11.3**		**14**		**13.4**		**13.5**		**11.8**	
Perfluorooctanoic acid (PFOA)	**6.7**	**36.8**		**40.7**		**23**		**39.9**		**24**	
Perfluoropentanesulfonic Acid (Pfpes)	NS	1.14	J	0.82	J	0.47	J	0.81	J	1.35	U
Perfluoropentanoic acid	NS	21.8		27.3		11.1		29.4		10.9	
Perfluorotetradecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorotridecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoroundecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	2.76	U	2.92	U	2.88	U	3.22	U	2.69	U

Table 14
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PFAS

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	ppt		ppt		ppt		ppt		ppt	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
3-Perfluoroheptyl propanoic acid	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
3-Perfluoropropyl propanoic acid	NS	3.47	U	2.81	U	3.03	U	2.96	U	3.35	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
6:2 Fluorotelomer sulfonate	NS	3.47	U	2.81	U	16.8		2.46	J	3.35	U
8:2 Fluorotelomer sulfonate	NS	3.47	U	2.81	U	3.03	U	2.96	U	3.35	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-ethyl perfluoro-1-octanesulfonamide	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-methyl perfluoro-1-octanesulfonamide	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	1.73	U	0.37	J	1.52	U	1.48	U	1.68	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoro(2-Propoxypropanoic) Acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoro-3-methoxypropanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoro-4-methoxybutanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorobutanesulfonic acid (PFBS)	NS	2.56	J	4.9	J	5.67		5.38		1.68	U
Perfluorobutanoic acid	NS	5.32	J	8.94	J	11.6		9.53		3.35	U
Perfluorodecanesulfonic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorodecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorododecane sulfonate (PFDoDS)	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorododecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoroheptanesulfonic acid	NS	1.73	U	0.37	J	1.52	U	1.48	U	1.68	U
Perfluoroheptanoic acid	NS	6.18	J	11.1	J	11		8.64		1.68	U
Perfluorohexanesulfonic acid	NS	5.82	J	9.43	J	8.25		8.61		1.68	U
Perfluorohexanoic acid	NS	10.4	J	17.4	J	19.7		13.9		1.68	U
Perfluorononanesulfonic Acid (Pfns)	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorononanoic acid	NS	0.98	J	1.27	J	0.93	J	0.66	J	1.68	U
Perfluorooctanesulfonamide	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorooctanesulfonic acid (PFOS)	**2.7**	**5.75**	**J**	**10.5**	**J**	**7.29**		**8.28**		1.68	U
Perfluorooctanoic acid (PFOA)	**6.7**	**24.8**	**J**	**43.9**	**J**	**33.7**		**32.3**		1.68	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	0.64	J	0.91	J	0.87	J	1.01	J	1.68	U
Perfluoropentanoic acid	NS	12.1	J	19.3	J	20.4		17.2		1.68	U
Perfluorotetradecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorotridecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoroundecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	3.47	U	2.81	U	3.03	U	2.96	U	3.35	U

Table 15A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	RI-SV-01_20260429		RI-SV-02_20260429		RI-SV-03_20260429		RI-SV-04_20260429		RI-SV-05_20260429	
Lab Sample ID	460-350202-1		460-350202-2		460-350202-3		460-350202-4		460-350202-5	
Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
Dilution Factor	1		4	20	40		10	40	1	4
Unit	µg/m³		µg/m³	µg/m³	µg/m³		µg/m³	µg/m³	µg/m³	µg/m³
Compound	CONC	Q	CONC	Q CONC Q	CONC	Q	CONC	Q CONC Q	CONC	Q CONC Q
1,1,1-Trichloroethane	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
1,1,2,2-Tetrachloroethane	1.4	U	5.5	U NR	55	U	14	U NR	1.4	U NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	1.5	U	6.1	U NR	61	U	15	U NR	1.5	U NR
1,1,2-Trichloroethane	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
1,1-Dichloroethane	0.81	U	3.2	U NR	32	U	8.1	U NR	0.81	U NR
1,1-Dichloroethene	0.2	U	0.8	U NR	8	U	2	U NR	0.2	U NR
1,2,4-Trichlorobenzene	3.7	U	15	U NR	150	U	37	U NR	3.7	U NR
1,2,4-Trimethylbenzene	0.98	U	3.7	J NR	39	U	9.8	U NR	0.98	U NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5	U	6.2	U NR	62	U	15	U NR	1.5	U NR
1,2-Dichlorobenzene	1.2	U	4.8	U NR	48	U	12	U NR	1.2	U NR
1,2-Dichloroethane	0.81	U	3.2	U NR	32	U	8.1	U NR	0.81	U NR
1,2-Dichloropropane	0.92	U	3.7	U NR	37	U	9.2	U NR	0.92	U NR
1,2-Dichlorotetrafluoroethane	1.4	U	5.6	U NR	56	U	14	U NR	1.4	U NR
1,3,5-Trimethylbenzene (Mesitylene)	0.98	U	3.9	U NR	39	U	9.8	U NR	0.98	U NR
1,3-Butadiene	0.4	J	8.9	NR	18	U	10	NR	0.55	NR
1,3-Dichlorobenzene	1.2	U	4.2	J NR	48	U	12	U NR	1.2	U NR
1,4-Dichlorobenzene	1.2	U	4.8	U NR	48	U	12	U NR	1.2	U NR
1,4-Dioxane (P-Dioxane)	18	U	72	U NR	720	U	180	U NR	18	U NR
2,2,4-Trimethylpentane	0.93	U	13	NR	37	U	10	NR	0.93	U NR
2-Chlorotoluene	1	U	4.2	U NR	42	U	10	U NR	1	U NR
2-Hexanone	2.1	U	4.2	J NR	82	U	21	U NR	2.1	U NR
4-Ethyltoluene	0.98	U	3.9	U NR	39	U	9.8	U NR	0.98	U NR
Acetone	33		170	NR	350	J	430	NR	NR	190 D
Allyl Chloride (3-Chloropropene)	1.6	U	6.3	U NR	63	U	16	U NR	1.6	U NR
Benzene	0.19	J	10	NR	10	J	6.5	NR	1.1	NR
Benzyl Chloride	1	U	4.2	U NR	42	U	10	U NR	1	U NR
Bromodichloromethane	0.73	J	5.4	U NR	54	U	13	U NR	1.3	U NR
Bromoform	2.1	U	8.3	U NR	83	U	21	U NR	2.1	U NR
Bromomethane	0.78	U	3.1	U NR	31	U	7.8	U NR	0.78	U NR
Butane	3.4		30	NR	21	J	22	NR	3.6	NR
Carbon Disulfide	1.6		4.3	J NR	62	U	110	NR	0.95	J NR
Carbon Tetrachloride	0.2	U	0.8	U NR	8	U	2	U NR	0.2	U NR
Chlorobenzene	0.92	U	3.7	U NR	37	U	9.2	U NR	0.92	U NR
Chlorodifluoromethane	1.8	U	7.1	U NR	71	U	18	U NR	1.8	U NR
Chloroethane	1.3	U	5.3	U NR	53	U	13	U NR	1.3	U NR
Chloroform	130		100	NR	270		59	NR	13	NR
Chloromethane	1	U	4.1	U NR	41	U	10	U NR	1	U NR
Cis-1,2-Dichloroethylene	51		970	NR	2,500		270	NR	52	NR
Cis-1,3-Dichloropropene	0.91	U	3.6	U NR	36	U	9.1	U NR	0.91	U NR
Cyclohexane	0.69	U	5.6	NR	28	U	4.2	J NR	0.89	NR
Cymene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
Dibromochloromethane	1.7	U	6.8	U NR	68	U	17	U NR	1.7	U NR
Dichlorodifluoromethane	2	J	9.9	U NR	99	U	25	U NR	1.9	J NR
Ethylbenzene	0.87	U	16	NR	47		19	NR	0.87	U NR
Hexachlorobutadiene	2.1	U	8.5	U NR	85	U	21	U NR	2.1	U NR
Isopropanol	12	U	88	NR	490	U	120	U NR	110	NR
Isopropylbenzene (Cumene)	0.98	U	3.9	U NR	39	U	11	NR	0.98	U NR
M,P-Xylenes	2.2	U	57	NR	150		32	NR	2.2	U NR
Methyl Ethyl Ketone (2-Butanone)	1.5	U	36	NR	59	U	77	NR	5.1	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.1	U	2.5	J NR	82	U	7.6	J NR	2.1	U NR
Methyl Methacrylate	2.1	U	8.2	U NR	82	U	21	U NR	2.1	U NR
Methylene Chloride	1.7	U	7	U NR	70	U	7.3	J NR	1.7	U NR
Naphthalene	2	U	8	U NR	80	U	20	U NR	2	U NR
N-Butylbenzene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
N-Heptane	0.82	U	17	NR	24	J	19	NR	0.82	U NR
N-Hexane	1.8	U	13	NR	23	J	17	J NR	0.7	J NR
N-Propylbenzene	0.98	U	3.9	U NR	39	U	9.8	U NR	0.98	U NR
O-Xylene (1,2-Dimethylbenzene)	0.87	U	13	NR	38		16	NR	0.87	U NR
Sec-Butylbenzene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
Styrene	0.85	U	3.4	U NR	34	U	8.5	U NR	0.85	U NR
T-Butylbenzene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
Tert-Butyl Alcohol	15	U	31	J NR	610	U	150	U NR	21	NR
Tert-Butyl Methyl Ether	0.72	U	2.9	U NR	29	U	7.2	U NR	0.72	U NR
Tetrachloroethylene (PCE)	380		NR	3,200 D	12,000		NR	7,200 D	210	NR
Tetrahydrofuran	15	U	66	NR	590	U	150	U NR	15	U NR
Toluene	0.75	U	54	NR	120		18	NR	1.1	NR
Trans-1,2-Dichloroethene	0.79	U	7.7	NR	20	J	7.9	U NR	0.79	U NR
Trans-1,3-Dichloropropene	0.91	U	3.6	U NR	36	U	9.1	U NR	0.91	U NR
Trichloroethylene (TCE)	25		160	NR	590		240	NR	24	NR
Trichlorofluoromethane	1.6		2.2	J NR	45	U	11	U NR	1.1	NR
Vinyl Bromide	0.88	U	3.5	U NR	35	U	8.8	U NR	0.88	U NR
Vinyl Chloride	0.2	U	0.8	U NR	8	U	2	U NR	0.2	U NR

Table 15B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	SV-01_20221004		SV-02_20221003		SV-03_20221004	SV-04_20221003	
Lab Sample ID	200-65197-1		200-65184-1		200-65197-2	200-65184-2	
Sample Date	10/4/2022		10/3/2022		10/4/2022	10/3/2022	
Dilution Factor	1	6.14	1	2	1	1	10
Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Compound	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1,2,2-Tetrachloroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.48 J	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,1,2-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,1-Dichloroethene	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR
1,2,4-Trichlorobenzene	3.7 U	NR	3.7 U	NR	3.7 U	3.7 U	NR
1,2,4-Trimethylbenzene	1.7	NR	1.8	NR	1.6	2.1	NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,2-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
1,2-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,2-Dichloropropane	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
1,2-Dichlorotetrafluoroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,3,5-Trimethylbenzene (Mesitylene)	0.33 J	NR	0.45 J	NR	0.39 J	0.49 J	NR
1,3-Butadiene	3.6	NR	1.6	NR	2.6	3.9	NR
1,3-Dichlorobenzene	1.9	NR	1.6	NR	1.5	2.2	NR
1,4-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
1,4-Dioxane (P-Dioxane)	18 U	NR	18 U	NR	18 U	18 U	NR
2,2,4-Trimethylpentane	1.2	NR	1.5	NR	3.3	1.2	NR
2-Chlorotoluene	1 U	NR	1 U	NR	1 U	1 U	NR
2-Hexanone	2 U	NR	2 U	NR	2 U	1.6 J	NR
4-Ethyltoluene	0.33 J	NR	0.54 J	NR	0.39 J	0.73 J	NR
Acetone	85	NR	NR	170 D	82	NR	130 D
Allyl Chloride (3-Chloropropene)	1.6 U	NR	1.6 U	NR	1.6 U	1.6 U	NR
Benzene	2	NR	2.2	NR	2.2	4.1	NR
Benzyl Chloride	1 UJ	NR	1 U	NR	1 UJ	1 U	NR
Bromodichloromethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Bromoform	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Bromomethane	0.78 U	NR	0.78 U	NR	0.78 U	0.78 U	NR
Butane	12	NR	8.1	NR	9.9	12	NR
Carbon Disulfide	4.1	NR	1.6	NR	2.3	3	NR
Carbon Tetrachloride	0.32	NR	0.4	NR	0.26	0.24	NR
Chlorobenzene	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
Chlorodifluoromethane	4	NR	8	NR	8.3	0.87 J	NR
Chloroethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Chloroform	8.6	NR	10	NR	9.5	5.9	NR
Chloromethane	0.8 J	NR	0.43 J	NR	0.41 J	0.32 J	NR
Cis-1,2-Dichloroethylene	NR	200 D	110	NR	96	22	NR
Cis-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Cyclohexane	1.1	NR	1	NR	0.65 J	1.1	NR
Cymene	3	NR	2.3	NR	1.9	2.7	NR
Dibromochloromethane	1.7 U	NR	1.7 U	NR	1.7 U	1.7 U	NR
Dichlorodifluoromethane	1.8 J	NR	0.8 J	NR	2.3 J	1.8 J	NR
Ethylbenzene	1.4	NR	4.2	NR	2.2	5.8	NR
Hexachlorobutadiene	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Isopropanol	24	NR	31	NR	24	24	NR
Isopropylbenzene (Cumene)	0.28 J	NR	0.98 U	NR	0.98 U	0.98 U	NR
M,P-Xylenes	5.3	NR	17	NR	8.5	23	NR
Methyl Ethyl Ketone (2-Butanone)	10	NR	6	NR	1.5 U	8.2	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.2 J	NR	2 U	NR	1.3 J	1 J	NR
Methyl Methacrylate	2 U	NR	2 U	NR	2 U	0.76 J	NR
Methylene Chloride	3.9	NR	0.65 J	NR	1.7 U	1.2 J	NR
Naphthalene	2.6 U	NR	2.6 U	NR	2.6 U	2.6 U	NR
N-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
N-Heptane	2.9	NR	2.4	NR	2.5	3.9	NR
N-Hexane	3.3	NR	3.7	NR	3.3	7.1	NR
N-Propylbenzene	0.26 J	NR	0.38 J	NR	0.27 J	0.53 J	NR
O-Xylene (1,2-Dimethylbenzene)	2	NR	3.8	NR	2.4	4.9	NR
Sec-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Styrene	0.41 J	NR	0.3 J	NR	0.85 U	0.42 J	NR
T-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Tert-Butyl Alcohol	14 J	NR	8.6 J	NR	36	14 J	NR
Tert-Butyl Methyl Ether	0.72 U	NR	0.72 U	NR	0.72 U	0.72 U	NR
Tetrachloroethylene (PCE)	NR	780 D	210	NR	130	NR	1,900 D
Tetrahydrofuran	15 U	NR	15 U	NR	15 U	15 U	NR
Toluene	11	NR	24	NR	6.1	29	NR
Trans-1,2-Dichloroethene	1.1	NR	1	NR	0.61 J	0.79 U	NR
Trans-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Trichloroethylene (TCE)	30	NR	34	NR	45	28	NR
Trichlorofluoromethane	1.6	NR	2	NR	1.4	1 J	NR
Vinyl Bromide	0.87 U	NR	0.87 U	NR	0.87 U	0.87 U	NR
Vinyl Chloride	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR
Xylenes, Total	NR	NR	NR	NR	NR	NR	NR

Table 15B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	SV-05_20221004		SV-06_20241213	SV-07_20241213	SV-11_20241213
Lab Sample ID	200-65197-3		200-76306-1	200-76306-2	200-76306-3
Sample Date	10/4/2022		12/13/2024	12/13/2024	12/13/2024
Dilution Factor	1	2	10	10	10
Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Compound	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.33 J	NR	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	1.4 U	NR	14 U	14 U	14 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.56 J	NR	15 U	15 U	15 U
1,1,2-Trichloroethane	1.1 U	NR	11 U	11 U	11 U
1,1-Dichloroethane	0.81 U	NR	8 U	8 U	8 U
1,1-Dichloroethene	0.2 U	NR	2. U	2. U	2. U
1,2,4-Trichlorobenzene	3.7 U	NR	37 U	37 U	37 U
1,2,4-Trimethylbenzene	1.5	NR	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR	15 U	15 U	15 U
1,2-Dichlorobenzene	1.2 U	NR	12 U	12 U	12 U
1,2-Dichloroethane	0.81 U	NR	8 U	8 U	8 U
1,2-Dichloropropane	0.92 U	NR	9 U	9 U	9 U
1,2-Dichlorotetrafluoroethane	1.4 U	NR	14 U	14 U	14 U
1,3,5-Trimethylbenzene (Mesitylene)	0.38 J	NR	10 U	10 U	10 U
1,3-Butadiene	6.6	NR	13.	5.6	4 U
1,3-Dichlorobenzene	2.6	NR	12 U	12 U	12 U
1,4-Dichlorobenzene	1.2 U	NR	12 U	12 U	12 U
1,4-Dioxane (P-Dioxane)	18 U	NR	180 U	180 U	180 U
2,2,4-Trimethylpentane	3.5	NR	2.3 J	3.5 J	9 U
2-Chlorotoluene	1 U	NR	10 U	10 U	10 U
2-Hexanone	2 U	NR	20 U	20 U	20 U
4-Ethyltoluene	0.39 J	NR	10 U	10 U	10 U
Acetone	87	NR	54 J	78 J	120 U
Allyl Chloride (3-Chloropropene)	1.6 U	NR	16 U	16 U	16 U
Benzene	3.9	NR	5. J	3.7 J	6 U
Benzyl Chloride	1 UJ	NR	10 U	10 U	10 U
Bromodichloromethane	1.3 U	NR	13 U	13 U	13 U
Bromoform	2.1 U	NR	21 U	21 U	21 U
Bromomethane	0.78 U	NR	8 U	8 U	8 U
Butane	25	NR	45	66	12 U
Carbon Disulfide	5.4	NR	21.	12 J	16 U
Carbon Tetrachloride	0.28	NR	2.2 U	2.2 U	2.2 U
Chlorobenzene	0.92 U	NR	9 U	9 U	9 U
Chlorodifluoromethane	2.2	NR	18 U	18 U	18 U
Chloroethane	1.3 U	NR	13 U	13 U	13 U
Chloroform	27	NR	10 U	10 U	3.1 J
Chloromethane	0.27 J	NR	10 U	10 U	10 U
Cis-1,2-Dichloroethylene	45	NR	2. U	2. U	8
Cis-1,3-Dichloropropene	0.91 U	NR	9 U	9 U	9 U
Cyclohexane	2	NR	5.9 J	13.	7 U
Cymene	3.6	NR	11 U	11 U	11 U
Dibromochloromethane	1.7 U	NR	17 U	17 U	17 U
Dichlorodifluoromethane	2.3 J	NR	25 U	25 U	25 U
Ethylbenzene	2.9	NR	9 U	9 U	9 U
Hexachlorobutadiene	2.1 U	NR	21 U	21 U	21 U
Isopropanol	11 J	NR	120 U	120 U	120 U
Isopropylbenzene (Cumene)	0.39 J	NR	10 U	10 U	10 U
M,P-Xylenes	9	NR	22 U	22 U	22 U
Methyl Ethyl Ketone (2-Butanone)	11	NR	14. J	18.	15 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.7 J	NR	20 U	20 U	20 U
Methyl Methacrylate	2 U	NR	20 U	20 U	20 U
Methylene Chloride	1.7 U	NR	17 U	17 U	17 U
Naphthalene	2.6 U	NR	20. U	20. U	20. U
N-Butylbenzene	1.1 U	NR	11 U	11 U	11 U
N-Heptane	5.8	NR	3.6 J	9.4	8 U
N-Hexane	7	NR	11 J	25.	18 U
N-Propylbenzene	0.28 J	NR	10 U	10 U	10 U
O-Xylene (1,2-Dimethylbenzene)	2.6	NR	9 U	9 U	9 U
Sec-Butylbenzene	1.1 U	NR	11 U	11 U	11 U
Styrene	0.85 U	NR	9 U	9 U	3.1 J
T-Butylbenzene	1.1 U	NR	11 U	11 U	11 U
Tert-Butyl Alcohol	28	NR	150 U	150 U	150 U
Tert-Butyl Methyl Ether	0.72 U	NR	7 U	7 U	7 U
Tetrachloroethylene (PCE)	NR	390 D	14 U	1.4 J	25.
Tetrahydrofuran	15 U	NR	150 U	150 U	150 U
Toluene	5.8	NR	5.5 J	2.6 J	8 U
Trans-1,2-Dichloroethene	0.79 U	NR	8 U	8 U	8 U
Trans-1,3-Dichloropropene	0.91 U	NR	9 U	9 U	9 U
Trichloroethylene (TCE)	25	NR	2. U	2. U	4.4
Trichlorofluoromethane	3.3	NR	11 U	11 U	11 U
Vinyl Bromide	0.87 U	NR	9 U	9 U	9 U
Vinyl Chloride	0.2 U	NR	2. U	2. U	2. U
Xylenes, Total	NR	NR	30 U	30 U	30 U

Tables 2-15
Ikos Senior Living
Queens, NY
Subsurface (Phase II) and Remedial Investigations
Notes

DEFINITIONS

D : Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.

J : The concentration given is an estimated value.

K : Reported concentration value is proportional to dilution factor and may be exaggerated

L : Sample result is estimated and biased low.

ND : The standard is a non-detectable concentration by the approved analytical method.

NR : Not reported.

NS : No standard.

R : Indicates the reported result is unusable. (note: the analyte may or may not be present.)

T : Indicates that a quality control parameter has exceeded laboratory limits.

U : The analyte was not detected at the indicated concentration.

UJ : The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg : milligrams per kilogram

ppb : parts per billion

ppt : parts per trillion

µg/L : micrograms per liter

µg/m^3 : micrograms per cubic meter of air

Tables 2-15
Ikos Senior Living
Queens, NY
Subsurface (Phase II) and Remedial Investigations
Notes

STANDARDS

Part 375 SCOs : Soil Cleanup Objectives (SCOs) listed in New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations [6 New York Codes, Rules and Regulations (NYCRR) Part 375].

Note: Endosulfans ABS represents the detected sum of Endosulfan I, Endosulfan II, and Endosulfan Sulfate.

Exceedances of Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray shading.
Exceedances of Part 375 Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) are underlined.

NYSDEC Part 375 PFAS Guidance Values : New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis and Assessment Of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs Issued April 2023.

Exceedances of NYSDEC PFAS Unrestricted Use Guidance Values (UUGVs) are highlighted in bold font.
Exceedances of NYSDEC PFAS Restricted Residential Guidance Values (RRGVs) are highlighted in gray shading.

NYSDEC Class GA AWQSGVs : New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

DUPLICATES

RI-DUP-01_20260427 is a blind duplicate of sample RI-SB-09_30-32_20260427.
RI-DUP-02_20260428 is a blind duplicate of sample RI-SB-07_33-35_20260428.
RI-DUP-03_20260429 is a blind duplicate of sample RI-SB-15_15-17_20260429.
RI-DUP-04_20260513 is a blind duplicate of sample RI-SB-01_29.5-31.5_20260513.
RI-SB-DUP-02_20260428 is a blind duplicate of sample RI-SB-13_4-6_20260428.
RI-MW-X_20260513 is a blind duplicate of sample RI-MW-06_20260513.

Table 16
Ikos Senior Living
32-11 31st Street
Queens, NY
Estimated Remedial Costs

	Quantity	Units	Unit Rate	Cost
Support of Excavation (SOE)				
- SOE for Track 2/4 areas	1	Estimated Total	$1,500,000	$1,500,000
Soil Excavation and Disposal Subtotal				**$1,500,000**
Soil Excavation and Backfill[1]				
- Soil disposal (estimated non-haz waste)	9,475	Tons	$75	$710,625
- Backfill	1,100	CY	$50	$55,000
Soil Excavation and Disposal Subtotal				**$770,000**
Groundwater Treatment				
- ISCO Treatment (one event)	1	Estimated Total	$600,000	$600,000
- Temporary Well Installation	32	EA	$2,500	$80,000
- Contingency Permanent Injection Well Installation	32	EA	$4,500	$144,000
- Contingency Permanent Injection System Installation	1	EA	$100,000	$100,000
- Post-Remedial Monitoring Well Installation	6	EA	$4,500	$27,000
ISCO Subtotal				**$960,000**
Sub-Slab Depressurization System (SSDS) and Vapor Barrier				
- Filter fabric, gravel layer, underground piping	13,730	SF	$6	$82,380
- Vapor Barrier	13,730	SF	$12	$164,760
- Aboveground piping, blowers, accessories & electrical	1	Lump Sum	$40,000	$40,000
SSDS Subtotal				**$290,000**
Contingent Soil Vapor Extraction System (SVES)				
- Pilot Test	1	Lump Sum	$100,000	$100,000
- Design	1	Lump Sum	$50,000	$50,000
- Soil Vapor Extraction Well Installation	10	EA	$5,000	$50,000
- Aboveground piping, blowers, accessories & electrical	1	Lump Sum	$400,000	$400,000
SVE Subtotal				**$600,000**
Analytical Laboratory Fees				
- Laboratory analysis for endpoint samples, import/reuse, groundwater sampling, and data validation	1	Estimated Total	$200,000	$200,000
Analytical Laboratory Subtotal				**$200,000**
Consulting Services				
- Engineering/Environmental Oversight, Design, and Coordination	1	Estimated Total	$450,000	$450,000
Site Preparation Subtotal				**$450,000**
Site Management Plan and Final Engineering Report	1	Lump Sum	$50,000	$50,000
Remedial Design Report	1	Lump Sum	$50,000	$50,000
Reporting Subtotal				**$100,000**
Estimated Total				**$4,270,000**
Estimated Total w/ SVE Contingency				**$4,870,000**

Notes/Assumptions:

[1] ***Soil Excavation***

Track 2/Cellar	5,417	Cubic Yards		
Track 4/Outside Cellar	817	Cubic Yards		
Incremental volume for hotspots	83	Cubic Yards		
Total	**6,317**	**Cubic Yards**	**9,475**	**Tons**

Assumes 1.5 Tons per cubic yard

Table 17
Ikos Senior Living
Queens, NY
NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs)

Compound	NYSDEC RRSCO (mg/kg)	NYSDEC PGWSCO (mg/kg)
VOCs		
1,1,1-Trichloroethane	100	0.68
1,1,2,2-Tetrachloroethane	NS	NS
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS
1,1,2-Trichloroethane	NS	NS
1,1-Dichloroethane	47	0.27
1,1-Dichloroethene	0.98	0.33
1,2,3-Trichlorobenzene	NS	NS
1,2,4-Trichlorobenzene	NS	NS
1,2,4-Trimethylbenzene	100	5.9
1,2-Dibromo-3-Chloropropane	NS	NS
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS
1,2-Dichlorobenzene	100	1.1
1,2-Dichloroethane	5.8	0.02
1,2-Dichloropropane	NS	NS
1,3,5-Trimethylbenzene (Mesitylene)	100	3.1
1,3-Dichlorobenzene	38	2.6
1,4-Dichlorobenzene	24	1.8
2-Hexanone	NS	NS
Acetone	100	0.03
Benzene	3.7	0.06
Bromochloromethane	NS	NS
Bromodichloromethane	NS	NS
Bromoform	NS	NS
Bromomethane	NS	NS
Carbon Disulfide	NS	NS
Carbon Tetrachloride	7.1	0.76
Chlorobenzene	100	4.5
Chloroethane	NS	NS
Chloroform	24	0.37
Chloromethane	NS	NS
Cis-1,2-Dichloroethylene	41	0.19
Cis-1,3-Dichloropropene	NS	NS
Cyclohexane	NS	NS
Dibromochloromethane	NS	NS
Dichlorodifluoromethane	NS	NS
Ethylbenzene	76	1
Isopropylbenzene (Cumene)	NS	NS
M,P-Xylenes	NS	NS
Methyl Acetate	NS	NS
Methyl Ethyl Ketone (2-Butanone)	100	0.1
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS
Methylcyclohexane	NS	NS
Methylene Chloride	81	0.05
N-Butylbenzene	100	18
N-Propylbenzene	100	5
O-Xylene (1,2-Dimethylbenzene)	NS	NS
Sec-Butylbenzene	100	25
Styrene	NS	NS
T-Butylbenzene	100	11
Tert-Butyl Methyl Ether	100	0.1
Tetrachloroethylene (PCE)	18	1.3
Toluene	100	0.7
Trans-1,2-Dichloroethene	100	0.19
Trans-1,3-Dichloropropene	NS	NS
Trichloroethylene (TCE)	6.4	0.47
Trichlorofluoromethane	NS	NS
Vinyl Chloride	0.48	0.03
Xylenes, Total	100	1.2

Table 17
Ikos Senior Living
Queens, NY
NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs)

Compound	NYSDEC RRSCO (mg/kg)	NYSDEC PGWSCO (mg/kg)
SVOCs		
1,2,4,5-Tetrachlorobenzene	NS	NS
1,4-Dioxane (P-Dioxane)	5.7	0.1
2,3,4,6-Tetrachlorophenol	NS	NS
2,4,5-Trichlorophenol	NS	NS
2,4,6-Trichlorophenol	NS	NS
2,4-Dichlorophenol	NS	NS
2,4-Dimethylphenol	NS	NS
2,4-Dinitrophenol	NS	NS
2,4-Dinitrotoluene	NS	NS
2,6-Dinitrotoluene	NS	NS
2-Chloronaphthalene	NS	NS
2-Chlorophenol	NS	NS
2-Methylnaphthalene	NS	NS
2-Methylphenol (O-Cresol)	100	0.33
2-Nitroaniline	NS	NS
2-Nitrophenol	NS	NS
3- And 4- Methylphenol (Total)	NS	NS
3,3'-Dichlorobenzidine	NS	NS
3-Nitroaniline	NS	NS
4,6-Dinitro-2-Methylphenol	NS	NS
4-Bromophenyl Phenyl Ether	NS	NS
4-Chloro-3-Methylphenol	NS	NS
4-Chloroaniline	NS	NS
4-Chlorophenyl Phenyl Ether	NS	NS
4-Methylphenol (P-Cresol)	100	0.33
4-Nitroaniline	NS	NS
4-Nitrophenol	NS	NS
Acenaphthene	100	98
Acenaphthylene	100	365
Acetophenone	NS	NS
Aniline	8.1	0.04
Anthracene	100	1,000
Atrazine	NS	NS
Benzaldehyde	NS	NS
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	22
Benzo(b)Fluoranthene	1.4	2.1
Benzo(g,h,i)Perylene	4.9	1,000
Benzo(k)Fluoranthene	4.9	2
Benzyl Butyl Phthalate	NS	NS
Biphenyl (Diphenyl)	NS	NS
Bis(2-Chloroethoxy) Methane	NS	NS
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS
Bis(2-Chloroisopropyl) Ether	NS	NS
Bis(2-Ethylhexyl) Phthalate	NS	NS
Caprolactam	NS	NS
Carbazole	NS	NS
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	1,000
Dibenzofuran	18	110
Diethyl Phthalate	NS	NS
Dimethyl Phthalate	NS	NS
Di-N-Butyl Phthalate	NS	NS
Di-N-Octylphthalate	NS	NS
Fluoranthene	100	1,000
Fluorene	100	386
Hexachlorobenzene	0.33	3.2
Hexachlorobutadiene	NS	NS
Hexachlorocyclopentadiene	NS	NS
Hexachloroethane	NS	NS
Indeno(1,2,3-c,d)Pyrene	1.4	6.6
Isophorone	NS	NS
Naphthalene	100	12
Nitrobenzene	1.8	0.08
N-Nitrosodi-N-Propylamine	NS	NS
N-Nitrosodiphenylamine	NS	NS
Pentachlorophenol	1.3	0.8
Phenanthrene	4.9	1,000
Phenol	100	0.33
Pyrene	100	1,000

Table 17
Ikos Senior Living
Queens, NY
NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs)

Compound	NYSDEC RRSCO (mg/kg)	NYSDEC PGWSCO (mg/kg)
PCBs		
PCB-1016 (Aroclor 1016)	NS	NS
PCB-1221 (Aroclor 1221)	NS	NS
PCB-1232 (Aroclor 1232)	NS	NS
PCB-1242 (Aroclor 1242)	NS	NS
PCB-1248 (Aroclor 1248)	NS	NS
PCB-1254 (Aroclor 1254)	NS	NS
PCB-1260 (Aroclor 1260)	NS	NS
PCB-1262 (Aroclor 1262)	NS	NS
PCB-1268 (Aroclor 1268)	NS	NS
Total PCBs	1	3.2
Pesticides		
Aldrin	0.044	0.19
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.18	0.02
Beta Bhc (Beta Hexachlorocyclohexane)	0.18	0.09
Chlordane (Technical)	NS	NS
Chlordane, cis-	0.65	4.5
Delta BHC (Delta Hexachlorocyclohexane)	100	0.1
Dieldrin	0.075	0.1
Endosulfan I	NS	65
Endosulfan II	NS	44
Endosulfan Sulfate	NS	47
Endosulfans ABS	35	NS
Endrin	5.3	0.06
Endrin Aldehyde	NS	NS
Endrin Ketone	NS	NS
Gamma Bhc (Lindane)	0.21	0.05
Heptachlor	0.53	0.38
Heptachlor Epoxide	NS	NS
Methoxychlor	NS	NS
P,P'-DDD	5	14
P,P'-DDE	3.4	9.3
P,P'-DDT	3.8	135
Toxaphene	NS	NS
Metals		
Aluminum	NS	NS
Antimony	NS	NS
Arsenic	16	16
Barium	410	820
Beryllium	43	47
Cadmium	2.5	7.5
Calcium	NS	NS
Chromium, Hexavalent	1	19
Chromium, Total	NS	NS
Cobalt	NS	NS
Copper	280	1,720
Iron	NS	NS
Lead	400	450
Magnesium	NS	NS
Manganese	2,000	2,000
Mercury	0.3	0.73
Nickel	320	130
Potassium	NS	NS
Selenium	110	4
Silver	110	8.3
Sodium	NS	NS
Thallium	NS	NS
Vanadium	NS	NS
Zinc	6,600	2,480

Table 17
Ikos Senior Living
Queens, NY
NYSDEC Part 375 Restricted Residential Guidance Values (RRGVs) and Protection of Groundwater Guidance Values (PGWGVs)

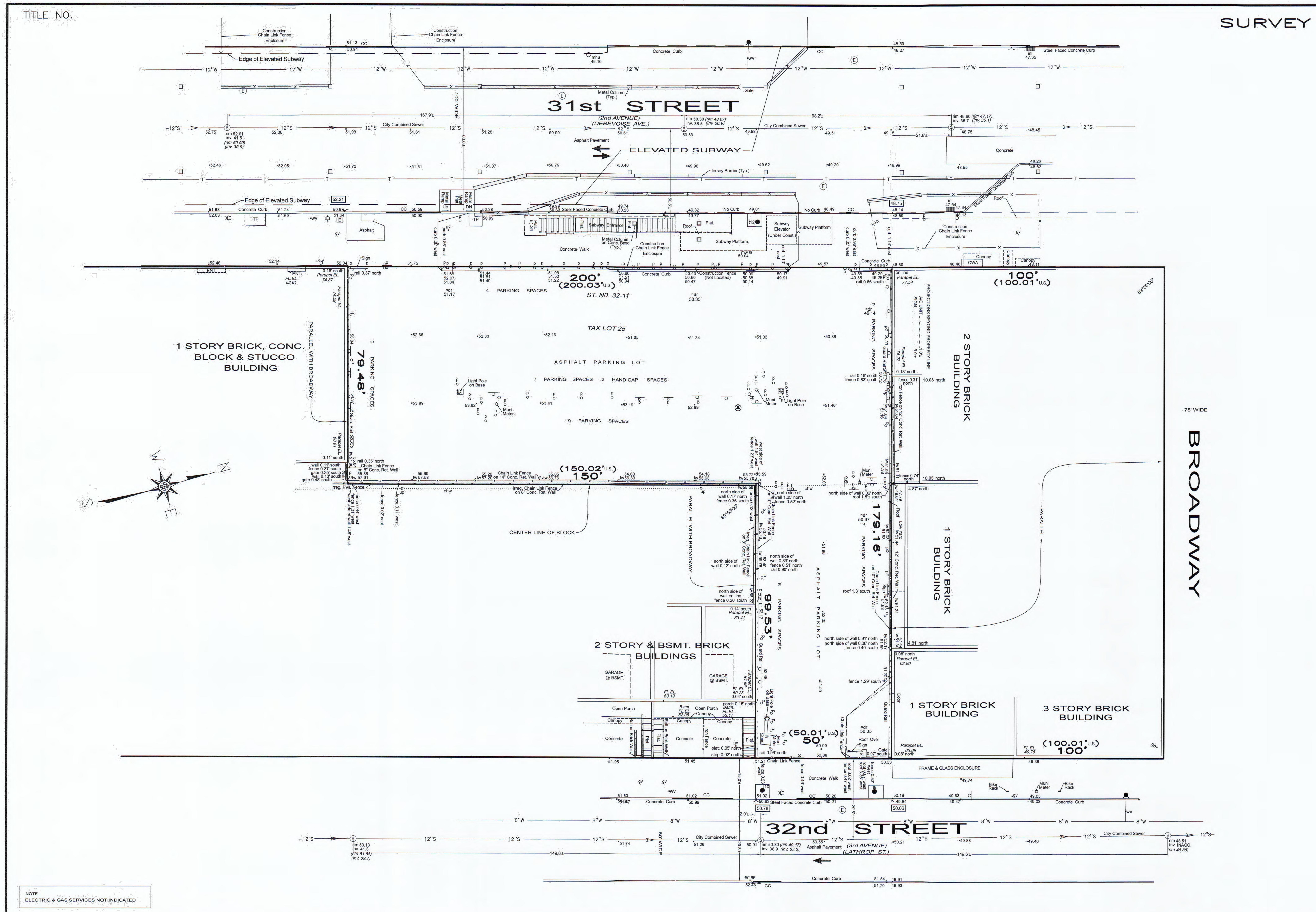
Compound	NYSDEC RRGV (ppb)	NYSDEC PGWGV (ppb)
PFAS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS
3-Perfluoroheptyl propanoic acid	NS	NS
3-Perfluoropropyl propanoic acid	NS	NS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS
6:2 Fluorotelomer sulfonate	NS	NS
8:2 Fluorotelomer sulfonate	NS	NS
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS
N-ethyl perfluoro-1-octanesulfonamide	NS	NS
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS
N-methyl perfluoro-1-octanesulfonamide	NS	NS
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS
Perfluoro(2-Propoxypropanoic) Acid	NS	NS
Perfluoro-3-methoxypropanoic acid	NS	NS
Perfluoro-4-methoxybutanoic acid	NS	NS
Perfluorobutanesulfonic acid (PFBS)	NS	NS
Perfluorobutanoic acid	NS	NS
Perfluorodecanesulfonic acid	NS	NS
Perfluorodecanoic acid	NS	NS
Perfluorododecane sulfonate (PFDoDS)	NS	NS
Perfluorododecanoic acid	NS	NS
Perfluoroheptanesulfonic acid	NS	NS
Perfluoroheptanoic acid	NS	NS
Perfluorohexanesulfonic acid	NS	NS
Perfluorohexanoic acid	NS	NS
Perfluorononanesulfonic Acid (Pfns)	NS	NS
Perfluorononanoic acid	NS	NS
Perfluorooctanesulfonamide	NS	NS
Perfluorooctanesulfonic acid (PFOS)	44	1
Perfluorooctanoic acid (PFOA)	33	0.8
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS
Perfluoropentanoic acid	NS	NS
Perfluorotetradecanoic acid	NS	NS
Perfluorotridecanoic acid	NS	NS
Perfluoroundecanoic acid	NS	NS
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS

APPENDIX A
METES AND BOUNDS

TITLE NO.

SURVEY NO. 67160

67160001.dwg
67160001.crd
67160—A.crd



LEGEND

ASPH......ASPHALT	PR......PEDESTRIAN RAMP
BK.........BRICK	RET......RETAINING
BSMT......BASEMENT	RIM......RIM ELEVATION SEWER MANHOLE
CC.........CURB CUT	SFCR....STEEL FACED CURB ROUND
CCR.......CONCRETE CURB ROUND	STY......STORY
CD.........CELLAR DOOR	TB.......TOP OF BANK ELEVATION
CLF........CHAIN LINK FENCE	......TRAFFIC LIGHT
CO.........CATCH BASIN CLEAN OUT	TEL......TELEPHONE
CONC.....CONCRETE	TP........TREE PIT
CRF........CHAIN ROPE FENCE	......TRAFFIC SIGN
CWA........CELLAR WINDOW AREA	TW.......ELEVATION AT TOP OF WALL
DR.........DRAIN	UP.......UTILITY POLE
EL.........ELEVATION	VU.......VALVE UNKNOWN
FAB........FIRE ALARM BOX	VLTU.....VAULT UNKNOWN
FC.........FILL CAP	VP.......VENT PIPE
FL EL.....FLOOR ELEVATION	WV.......WATER VALVE
GP.........GUARD POLE	12"G.....GAS MAIN WITH SIZE
GV.........GAS VALVE	12"S.....SEWER MAIN WITH SIZE
IF.........IRON FENCE	12"W.....WATER MAIN WITH SIZE
INL.........CATCH BASIN INLET ELEVATION	......CATCH BASIN
INV........SEWER INVERT ELEVATION	(E) [E]...ELECTRIC MANHOLE / VAULT
......LIGHT POLE	(F)......FIRE MANHOLE
MB.........MAIL BOX	(G)......GAS MANHOLE
MHU.......UNKNOWN MANHOLE	(S)......SEWER MANHOLE
OF.........OIL FILL	(T)......TELEPHONE MANHOLE
OHW.......OVERHEAD WIRES	(W)......WATER MANHOLE
P.........POLE	[TR]......TRAFFIC VAULT
PAVT......PAVEMENT	......HYDRANT
PM.......PARKING METER	T8.....TREE WITH SIZE
PMULT.....POLE, MULTIPLE USAGE	(rim 47.17) (inv. 35.1) ......ELEVATIONS IN BOROUGH DATUM
......MONITORING WELL	

GENERAL NOTES

1. ELEVATIONS AND ESTABLISHED GRADES SHOWN HEREON REFER TO NAVD 1988 WHICH IS 1.625 FEET BELOW THE QUEENS TOPOGRAPHICAL BUREAU DATUM.
2. ESTABLISHED GRADES SHOWN HEREON REFER TO TOP OF CURB. IF ESTABLISHED GRADES VARY SUBSTANTIALLY WITH EXISTING ELEVATIONS CONSULT WITH THE HIGHWAY DEPARTMENT BEFORE DESIGNING IMPROVEMENTS.
3. SIZES AND LOCATIONS OF WATER MAINS SHOWN HEREON AS SUPPLIED BY THE DEPARTMENT OF WATER SUPPLY, BOROUGH OF QUEENS. LOCATIONS OF WATER SUPPLY MANHOLES, HYDRANTS AND WATER VALVES AS OBTAINED FROM FIELD MEASUREMENT.
4. SIZES AND TYPES OF SEWERS SHOWN HEREON AS OBTAINED FROM THE BOROUGH OF QUEENS SEWER DEPARTMENT RECORDS. SEWER MANHOLE RIM AND INVERT ELEVATIONS SHOWN HEREON OBTAINED BY FIELD MEASUREMENTS UNLESS INDICATED (*) WHICH DENOTES INVERT INACCESSIBLE OR MANHOLE NOT FOUND IN FIELD. INFORMATION SHOWN IN THIS MANNER IS AS OBTAINED FROM THE BOROUGH OF QUEENS SEWER DEPARTMENT RECORDS.
5. ELECTRIC AND GAS INFORMATION SHOWN HEREON AS SUPPLIED BY THE CONSOLIDATED EDISON COMPANY OF NEW YORK. (CONSOLIDATED EDISON COMPANY DOES NOT PROVIDE UNDERGROUND ELECTRIC & GAS INFORMATION).
6. TELEPHONE INFORMATION SHOWN HEREON AS SUPPLIED BY THE NEW YORK TELEPHONE COMPANY.
7. FIRE ALARM INFORMATION SHOWN HEREON AS SUPPLIED BY THE NEW YORK CITY FIRE DEPARTMENT. AERIAL FIRE ALARM SERVICES.
8. CABLE TELEVISION INFORMATION SHOWN HEREON AS SUPPLIED BY THE CABLE VISION COMPANY OF NEW YORK. AERIAL CABLE TV SERVICES.
9. LOCATIONS OF ALL UTILITIES AND SUBSTRUCTURES ARE APPROXIMATE ONLY. THE INFORMATION GIVEN ON THE SURVEY PERTAINING TO UTILITIES AND SUBSTRUCTURES IS NOT CERTIFIED AS TO ACCURACY OR COMPLETENESS. CONSULT WITH THE APPROPRIATE COMPANY OR AGENCY BEFORE DESIGNING IMPROVEMENTS.
10. THE OWNER, CONTRACTOR AND/OR HIS AGENTS MUST NOTIFY THE APPROPRIATE UTILITY COMPANIES AND/OR AGENCIES AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION IN ACCORDANCE WITH INDUSTRIAL CODE RULE 753.
11. NO EVIDENCE OF EXISTING STREAMS, CREEKS, DITCHES OR WATER COURSES ON/OR CROSSING PROPERTY SURVEYED, OTHER THAN THOSE SHOWN.
12. NOT ALL SUBSURFACE INFORMATION PLOTTED.

PARCEL AREA=20,890 SQ. FT.
OR 0.479568 ACRE

FLOOD HAZARD NOTE

THE PARCEL SURVEYED IS COMPRISED OF AREAS DESIGNATED AS ZONE X (LESS THAN 0.2% CHANCE OF FLOODING)
FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
COMMUNITY PANEL NUMBER 360497 0093 F
EFFECTIVE DATE SEPTEMBER 5, 2007

QUEENS TOPOGRAPHICAL BUREAU DATUM
MEAN SEA LEVEL 0.00 (NAVD 1988) 1.625 2.725
MEAN SEA LEVEL 0.00 (NGVD1929) 1.1

NAVD 1988 DATUM IS 1.625 FEET BELOW THE QUEENS HIGHWAY DATUM

16 0 16 32 48
GRAPHIC SCALE – FEET

LONG ISLAND CITY STANDARD
EXCEPT WHERE OTHERWISE NOTED U.S.

DRAWN: J.R.

ESTABLISHED 1876 * SUCCESSOR TO:
B.G. MEINIKHEIM C.S.*C.U. POWELL C.E.,C.S.*L.C.L. SMITH C.S.*NATHAN CAMPBELL C.E.,C.S.*A.U. WHITSON C.E.,C.S.*
WILLIAM L. SAVACOOL C.E.,L.S.,C.S.*A.U. WHITSON INC. C.E.,C.S.*G. WEBER L.S.,C.S.*C. STIDOLPH R.A.,L.S.*WHITSON &
POWELL INC. P.E.,L.S.,C.S.*KELLER & POWELL P.E.,L.S.,C.S.*LOUIS MONTROSE C.E.,L.S.,C.S.*FRED J. POWELL P.E.,L.S.,C.S.*

REV	DATE	DESCRIPTION	ck

REV	DATE	DESCRIPTION	ck
/	09-01-21	ARCHITECTURAL SURVEY	
A	04-13-26	ARCHITECTURAL SURVEY UPDATED	

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MONTROSE
SURVEYING CO., LLP.
CITY & LAND SURVEYORS
116 20 METROPOLITAN AVE * RICHMOND HILL NY 11418–1090 * (718) 849–0600
WWW.MONTROSESURVEYING.COM Email: info@montrosesurveying.com

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STATE OF NEW YORK · SAEID JALILVAND · 050236 · LICENSED LAND SURVEYOR

CITY OF NEW YORK
COUNTY QUEENS
TAX BLOCK 611
TAX LOT 25

SCALE: 1" = 16'

NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1614 - EARTHQUAKE LOADS.

PROJECT:

IKOS SENIOR LIVING

32-11 31ST STREET
ASTORIA, QUEENS, NY 11106

BLOCK 611, LOT 25
ZONING MAP 9a
ZONING DISTRICTS: C4-5 (R7-2 EQUIVALENT)
C4-2A (R6A EQUIVALENT)

OWNER:
IKOS Senior Living Housing Development Fund Corporation
27-40 HOYT AVENUE SOUTH
ASTORIA, NY 11102
TEL: (212) 840-8005 x 100

ARCHITECT:
SLCE*Architects*,LLP
1359 BROADWAY
NEW YORK, NEW YORK 10018
TEL: (212) 979-8400
FAX: (212) 979-8387

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239 CENTRAL AVENUE
WHITE PLAINS, NEW YORK 10606
TEL: (914) 948-8844
FAX: (914) 948-8868

MEP ENGINEER:
CMTA
WORLDWIDE PLAZA, 825 EIGHTH AVENUE, FL 18
NEW YORK, NEW YORK 10019
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LANDSCAPE ARCHITECT:
TERRAIN-NYC LANDSCAPE ARCHITECTURE, PC
307 SEVENTH AVENUE, SUITE 1604
NEW YORK, NEW YORK 10001
TEL: (212) 537-6080
FAX: (212) 537-6079

BUILDING ENVELOPE CONSULTANT:
CANY
104 WEST 29TH STREET, 5TH FLOOR
NEW YORK, NY 10001
TEL: (212) 414-9623

BPP & PARKS DEPT. CONSULTANT:
SULLIVAN GROUP DESIGN LLC
56 PINE STREET, 16a
NEW YORK, NY 10005
TEL: (212) 352-8636

DOB # Q01379385-I1

No:	Date:	Revision:
	05/08.26	100% DD ISSUANCE
	10/21/22	BLDS DESIGN CONSULTATION SUBMISSION

SCALE:
N.T.S.

KEY PLAN:

DRAWING TITLE:
SURVEY

SIGNATURE:
SEAL:

PROJECT No: 2026-06 / 2017-81
DRAWN BY:
CHECK'D BY:
DWG. No:

A-003.00

APPENDIX B
PROPOSED DEVELOPMENT PLANS

31ST STREET (100' WIDE STREET)

C4-5 / C4-3

LEGEND

NOT IN SCOPE

BASE PLANE CALC. @ 31ST ST
(48.80'+52.04')/2 = 50.42' (50'-5")

200'-0 1/4"

3" SEISMIC GAP

RESIDENTIAL EXIT | COMMERCIAL ENTRANCE | COMMERCIAL ENTRANCE | RESIDENTIAL EXIT | COMMERCIAL ENTRANCE | RESIDENTIAL ENTRANCE

137'-8" | 199'-5" PROPERTY LINE | 61'-9" DORMER (8TH THRU 10TH FLS.) | 4 1/4" SEISMIC GAP

EL. +52.04' (52'-0 1/2")

PROPERTY LINE

ROOF OVER 7TH FL.
EL.+127'-7" (HT. +77'-2")

ROOF OVER 10TH FL.
EL.+157'-7" (HT. +107'-2")

EL. +48.80' (48'-9 1/2")

10'-6" SETBACK

ROOF OVER 13TH FLOOR
EL.+187'-8" (HT. +137'-0")

PROJECTIONS BEYOND PROPERTY LINE

2 STORY BRICK BUILDING

LOT 33

STAIR B BULKHEAD ROOF

10'-10"

STAIR A / ELEV. BULKHEAD ROOF

LOT 21

79'-5 3/4" PROPERTY LINE

1 STORY BRICK, CONC. BLOCK & STUCCO BUILDING

30'-0 3/4" REAR YARD

164'-5"

REAR YARD (OUTDOOR PASSIVE RECREATION SPACE)

ROOF OVER 1ST FLOOR (OUTDOOR PASSIVE RECREATION SPACE)
EL.+64'-2"
(HT. +15'-0")

C4-5 / C4-3

150'-0 1/4" PROPERTY LINE

14'-8 3/4"

65'-6" (REAR YARD EQUIVALENT)

1" SEISMIC GAP

179'-2"

SITE PLAN 0' 8' 16' 32' N

C4-5 / C4-3 / C4-2A / R5

LOT 37 | LOT 38 | LOT 138 | LOT 39 | LOT 40

ROOF OVER 1ST FLOOR (C.F.)
EL.+64'-2"
(HT. +13'-1 1/2")

1 STORY BRICK BUILDING

LOT 49 | LOT 48 | LOT 47 | LOT 146 | LOT 46 | LOT 45 | LOT 144 | LOT 44 | LOT 43

2 STORY & BSMT. BRICK BUILDINGS

COMMUNITY FACILITY ROOF OVER 3RD FLOOR
EL.+92'-0"
(HT. +41'-1 1/2")

STAIR & ELEVATOR BULKHEAD

COMMUNITY FACILITY EXIT | COMMUNITY FACILITY ENTRANCE | NEIGHBOR EXIT

EL. +51.21' (51'-2 1/2")

EL. +54.53' (54'-6 3/8")

50'-0" PROPERTY LINE

BASE PLANE CALC. @ 32ND ST
(50.53'+51.21')/2 = 50.87' (50'-10 7/16")

199'-10"

200'-0 1/4"

32ND STREET (60' NARROW STREET)

NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1614 - EARTHQUAKE LOADS.

PROJECT:

IKOS SENIOR LIVING COMMUNITY FACILITY

32-11 31ST STREET
ASTORIA, QUEENS, NY 11106

BLOCK 611, LOT 25
ZONING MAP 9a
ZONING DISTRICTS: C4-5 (R7-2 EQUIVALENT)
C4-2A (R6A EQUIVALENT)

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WORLDWIDE PLAZA, 825 EIGHTH AVENUE, FL 18
NEW YORK, NEW YORK 10019
TEL: (212) 944-7722

LANDSCAPE ARCHITECT:
TERRAIN-NYC LANDSCAPE ARCHITECTURE, PC
307 SEVENTH AVENUE, SUITE 1604
NEW YORK, NEW YORK 10001
TEL: (212) 537-6080
FAX: (212) 537-6079

BUILDING ENVELOPE CONSULTANT:
CANY
104 WEST 29TH STREET, 5TH FLOOR
NEW YORK, NY 10001
TEL: (212) 414-9023

BPP & PARKS DEPT. CONSULTANT:
SULLIVAN GROUP DESIGN LLC
56 PINE STREET, 16o
NEW YORK, NY 10005
TEL: (212) 352-8636

No:	Date:	Revision:
	05/08/26	100% DD ISSUANCE
	04/15/26	TOPO
	10/21/22	BLDS DESIGN CONSULTATION SUBMISSION

SCALE: 1/8" = 1'-0"

KEY PLAN:

DRAWING TITLE: SITE PLAN

SIGNATURE:

SEAL:

PROJECT No: 2026-06 / 2017-81
DRAWN BY: JK
CHECK'D BY: JC
DWG. No:

A-100.00

sheet of 00

APPENDIX C
HISTORICAL SANBORN MAPS

31-07 31st Street

31-07 31st Street

Astoria, NY 11106

Inquiry Number: 6463526.3

April 23, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/23/21

Site Name:

31-07 31st Street
31-07 31st Street
Astoria, NY 11106
EDR Inquiry # 6463526.3

Client Name:

AKRF, Inc.
440 Park Avenue, South 7th Floor
New York, NY 10016
Contact: Amy Jordan

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AKRF, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 2821-4B87-B580

PO # 210124-1009

Project IKOS Senior Living

Maps Provided:

2006	1995	1986	1936
2005	1994	1985	1915
2004	1993	1981	1898
2003	1992	1979	
2002	1991	1977	
2001	1990	1967	
1999	1989	1950	
1996	1988	1948	

Sanborn® Library search results

Certification #: 2821-4B87-B580

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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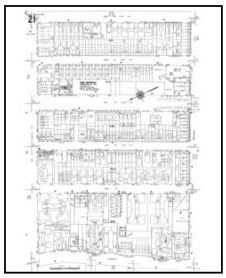
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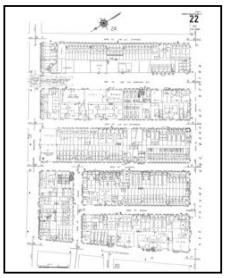
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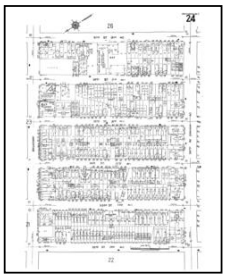
Sanborn Sheet Key

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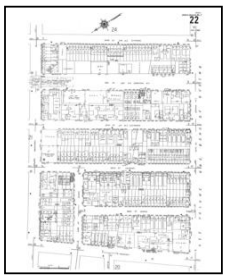
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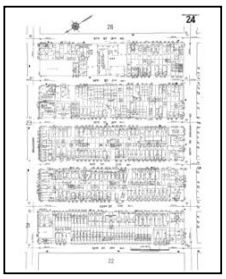

Volume 2, Sheet 21
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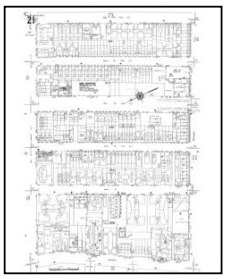

Volume 2, Sheet 22
2006


Volume 2, Sheet 24
2006

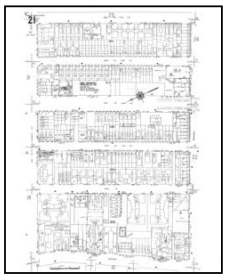
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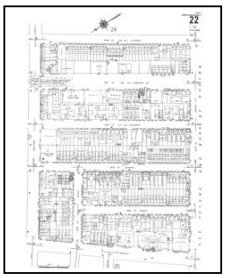

Volume 2, Sheet 22
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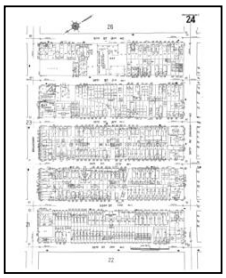

Volume 2, Sheet 24
2005


Volume 2, Sheet 21
2005

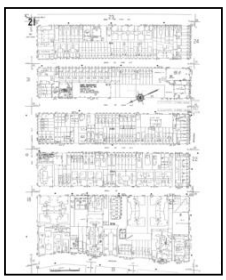
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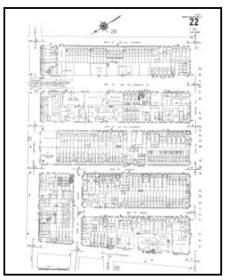

Volume 2, Sheet 21
2004

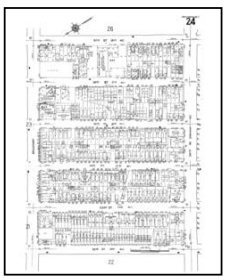

Volume 2, Sheet 22
2004


Volume 2, Sheet 24
2004

2003 Source Sheets


Volume 2, Sheet 21
2003

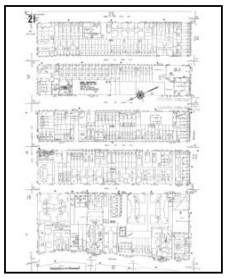

Volume 2, Sheet 22
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Volume 2, Sheet 24
2003

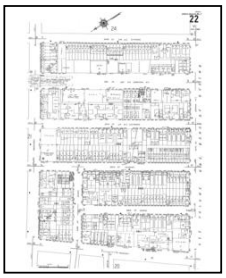
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

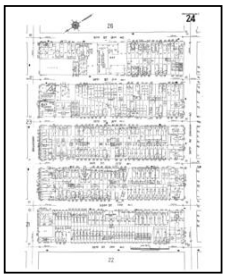
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Volume 2, Sheet 21
2002

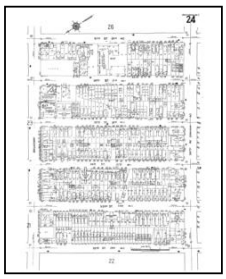


Volume 2, Sheet 22
2002

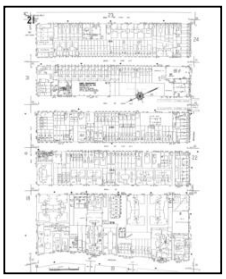


Volume 2, Sheet 24
2002

2001 Source Sheets



Volume 2, Sheet 24
2001

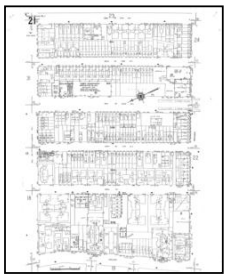


Volume 2, Sheet 21
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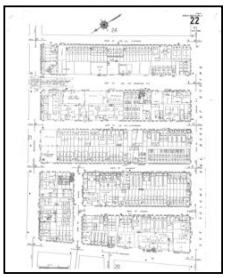


Volume 2, Sheet 22
2001

1999 Source Sheets



Volume 2, Sheet 21
1999



Volume 2, Sheet 22
1999



Volume 2, Sheet 24
1999

1996 Source Sheets



Volume 2, Sheet 21
1996



Volume 2, Sheet 22
1996

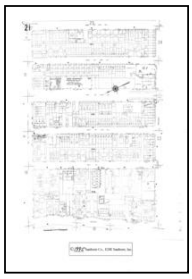


Volume 2, Sheet 24
1996

Sanborn Sheet Key

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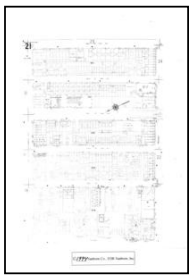
1995 Source Sheets


Volume 2, Sheet 21
1995


Volume 2, Sheet 22
1995


Volume 2, Sheet 24
1995

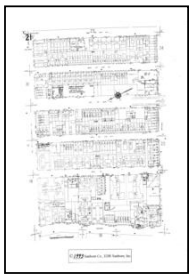
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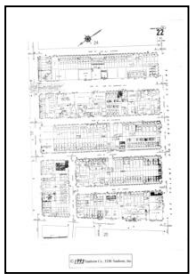

Volume 2, Sheet 21
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Volume 2, Sheet 22
1994


Volume 2, Sheet 24
1994

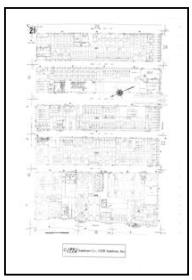
1993 Source Sheets


Volume 2, Sheet 21
1993


Volume 2, Sheet 22
1993


Volume 2, Sheet 24
1993

1992 Source Sheets


Volume 2, Sheet 21
1992

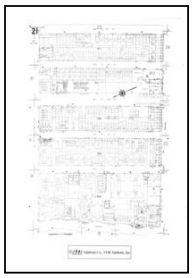

Volume 2, Sheet 22
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Volume 2, Sheet 24
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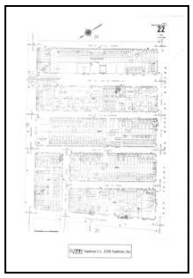
Sanborn Sheet Key

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1991 Source Sheets



Volume 2, Sheet 21
1991



Volume 2, Sheet 22
1991



Volume 2, Sheet 24
1991

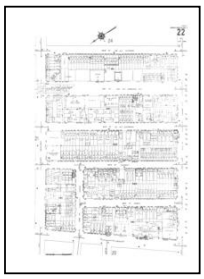
1990 Source Sheets



Volume 2, Sheet 24
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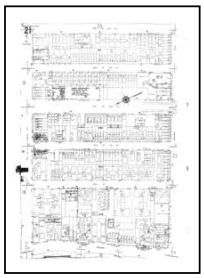


Volume 2, Sheet 21
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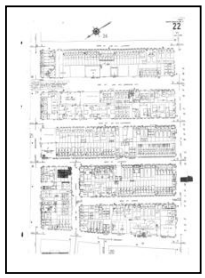


Volume 2, Sheet 22
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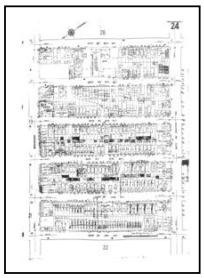
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Volume 2, Sheet 21
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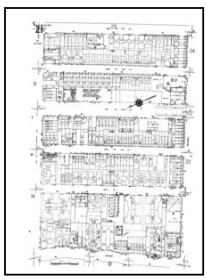


Volume 2, Sheet 22
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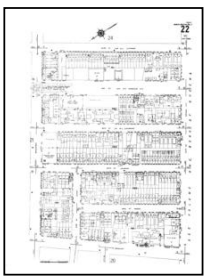


Volume 2, Sheet 24
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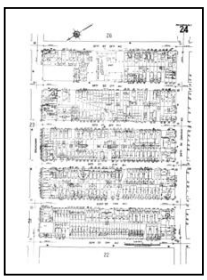
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Volume 2, Sheet 21
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Volume 2, Sheet 22
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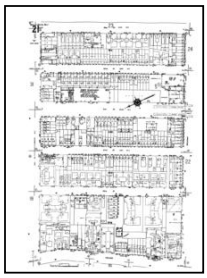


Volume 2, Sheet 24
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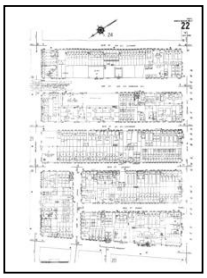
Sanborn Sheet Key

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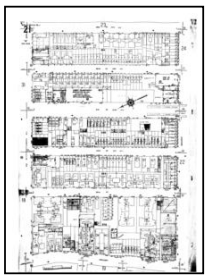


Volume 2, Sheet 22
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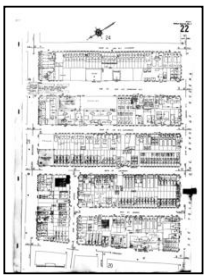


Volume 2, Sheet 24
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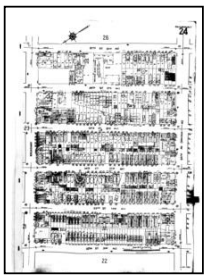
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Volume 2, Sheet 21
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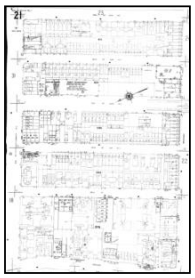


Volume 2, Sheet 22
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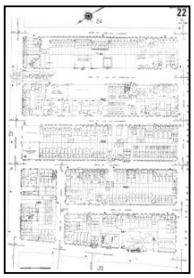


Volume 2, Sheet 24
1985

1981 Source Sheets



Volume 2, Sheet 21
1981

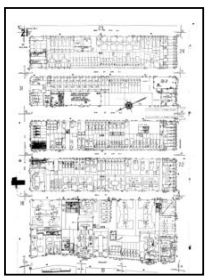


Volume 2, Sheet 22
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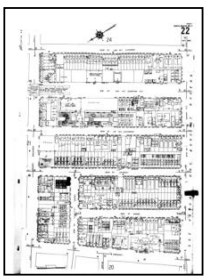


Volume 2, Sheet 24
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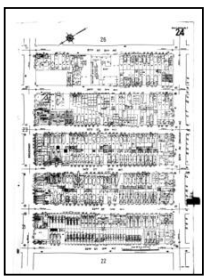
1979 Source Sheets



Volume 2, Sheet 21
1979



Volume 2, Sheet 22
1979

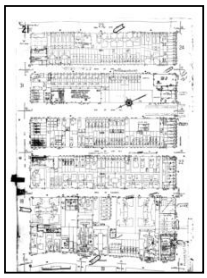


Volume 2, Sheet 24
1979

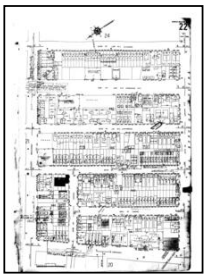
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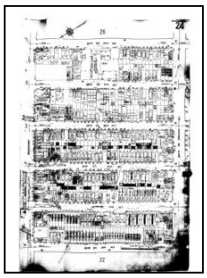
1977 Source Sheets



Volume 2, Sheet 21
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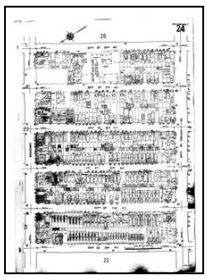


Volume 2, Sheet 22
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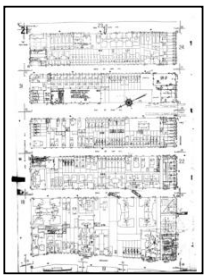


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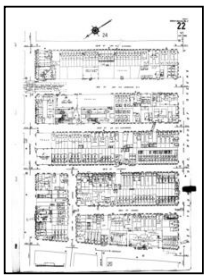
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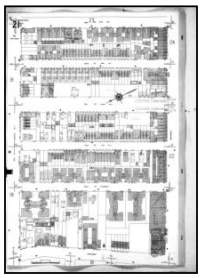


Volume 2, Sheet 21
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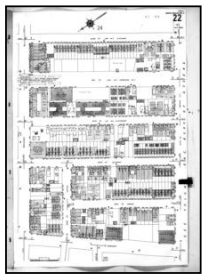


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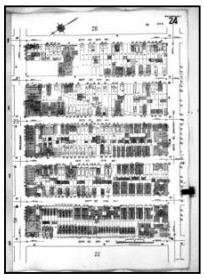
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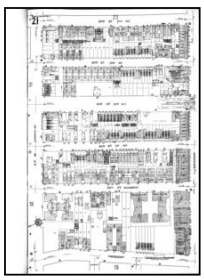


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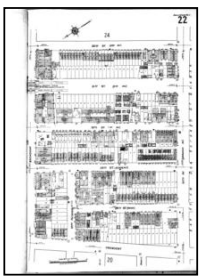


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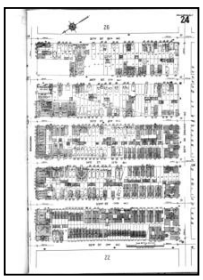
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Volume 2, Sheet 21
1948



Volume 2, Sheet 22
1948

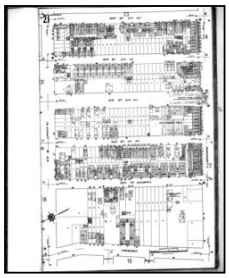


Volume 2, Sheet 24
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Sanborn Sheet Key

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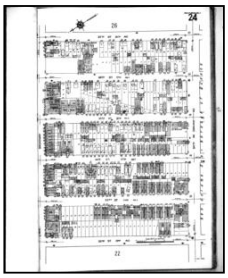
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Volume 2, Sheet 21
1936

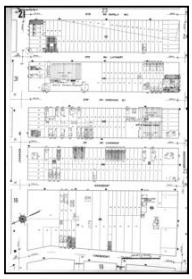


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1936



Volume 2, Sheet 24
1936

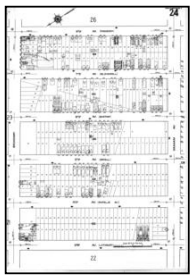
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Volume 2, Sheet 21
1915

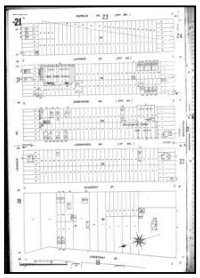


Volume 2, Sheet 22
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Volume 2, Sheet 24
1915

1898 Source Sheets



Volume 2, Sheet 21
1898



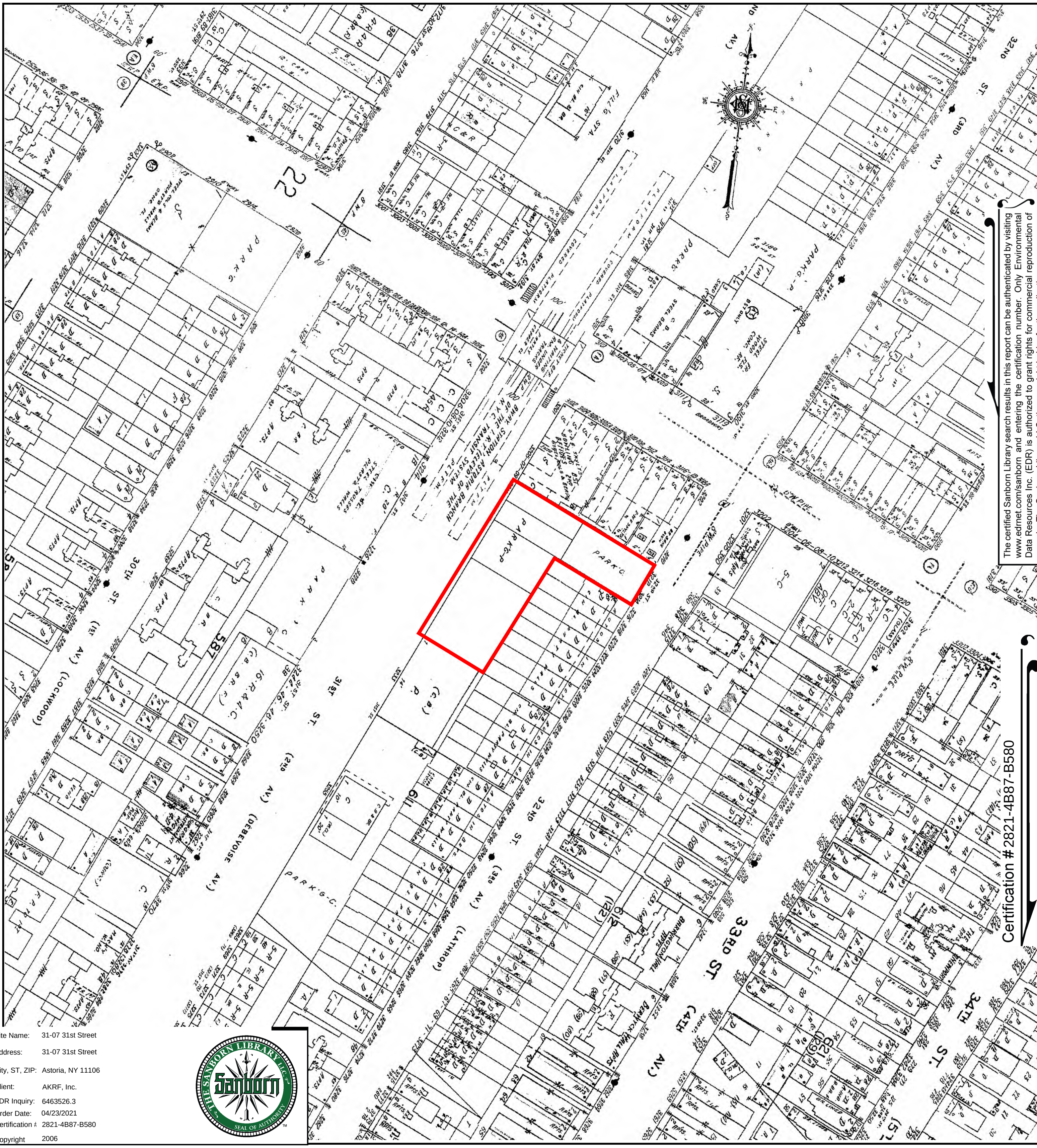
Volume 2, Sheet 22
1898



Volume 2, Sheet 24
1898

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2006

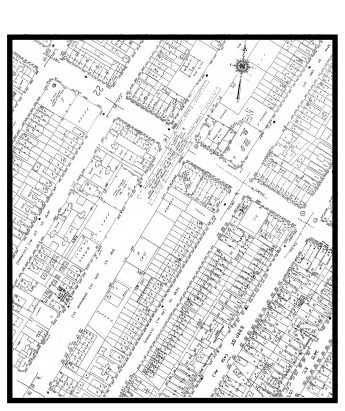


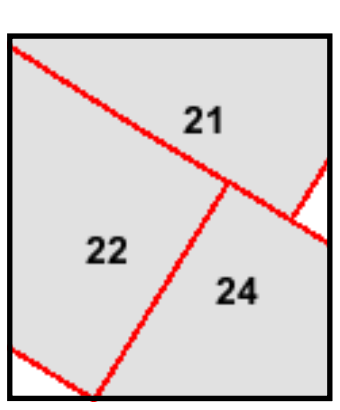
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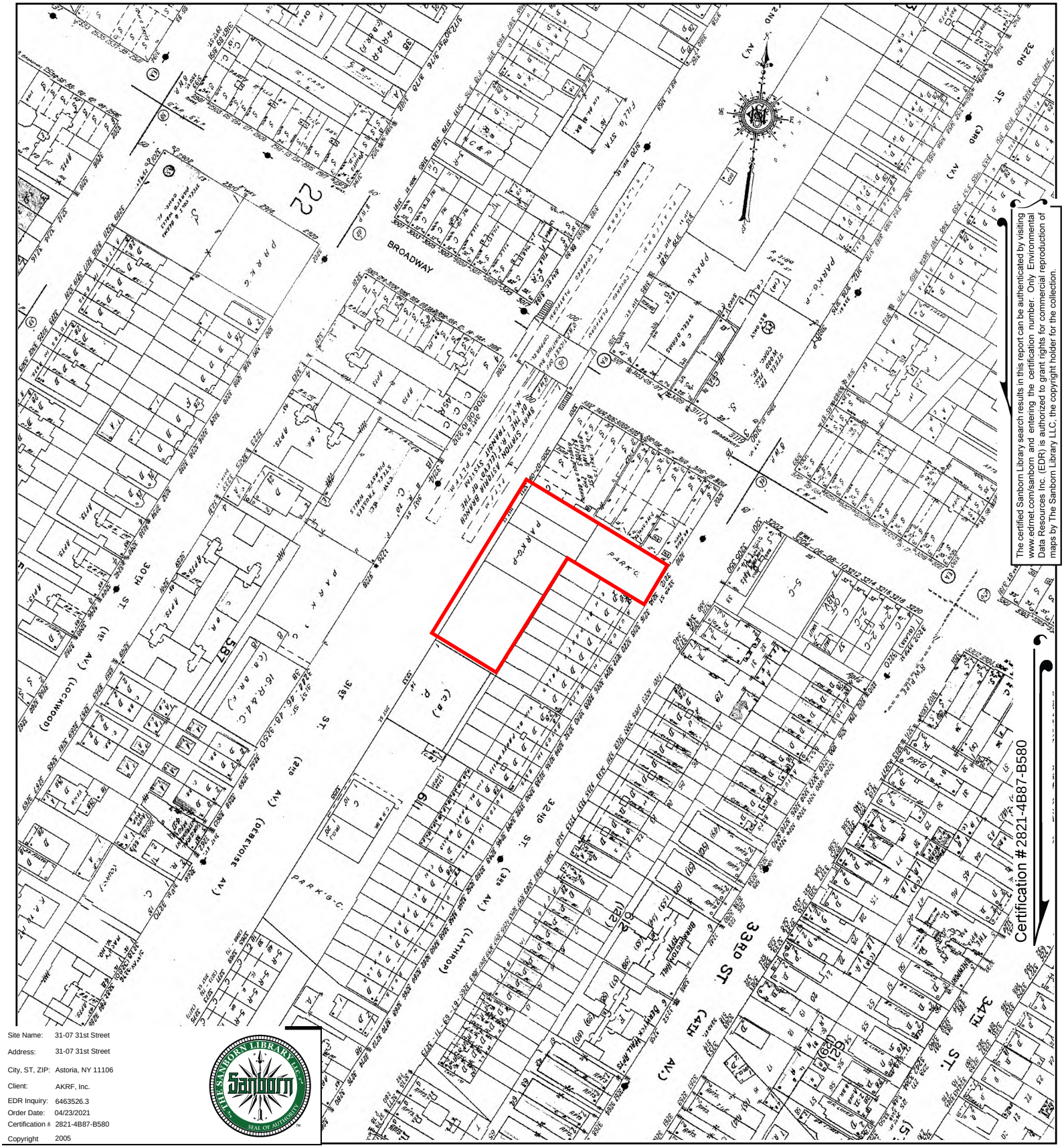




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Volume 2, Sheet 21

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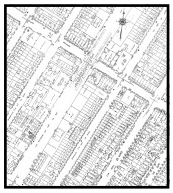


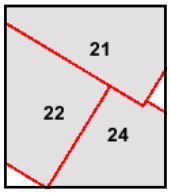
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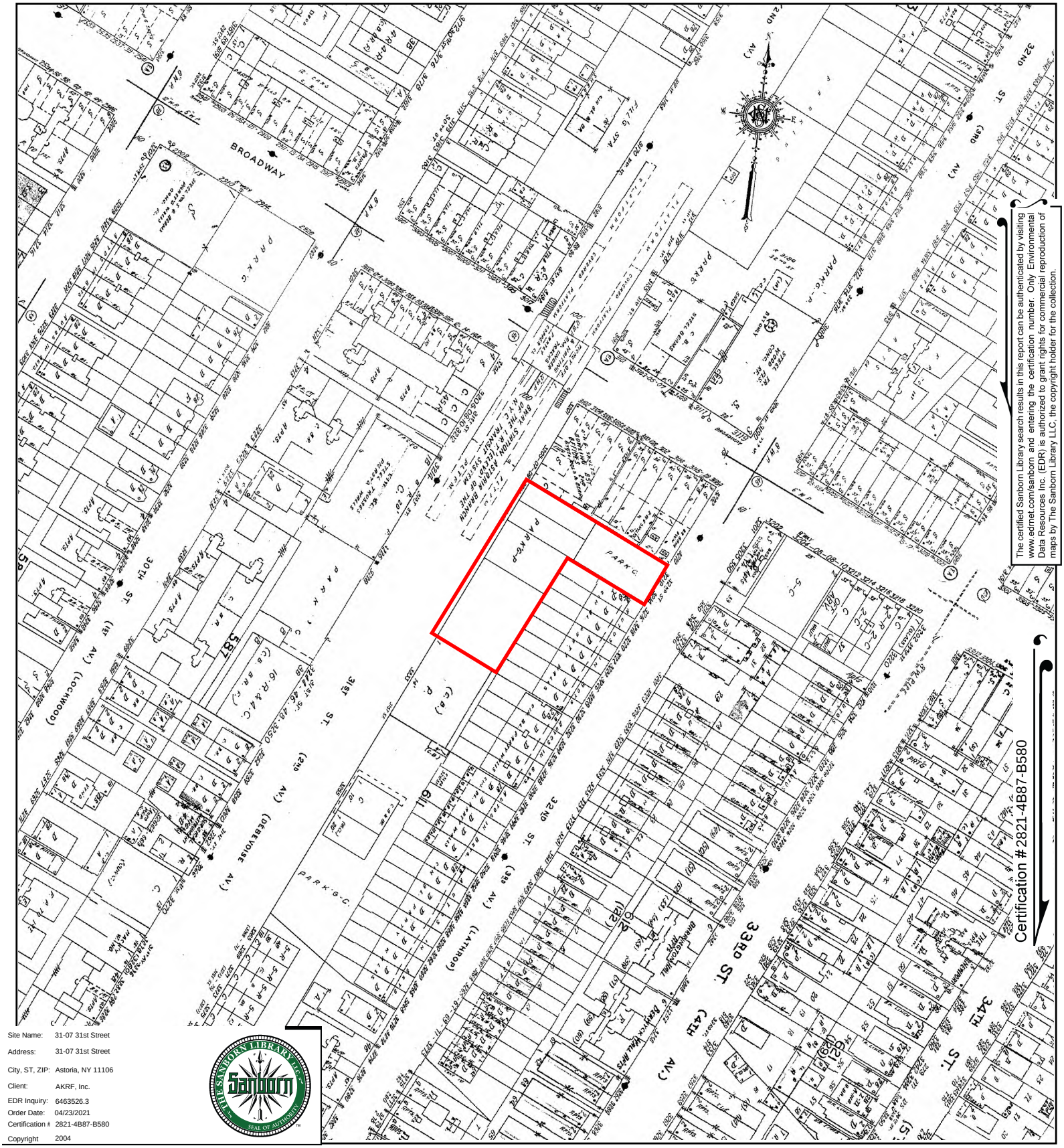
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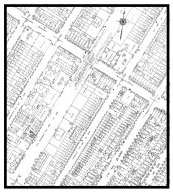
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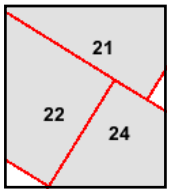


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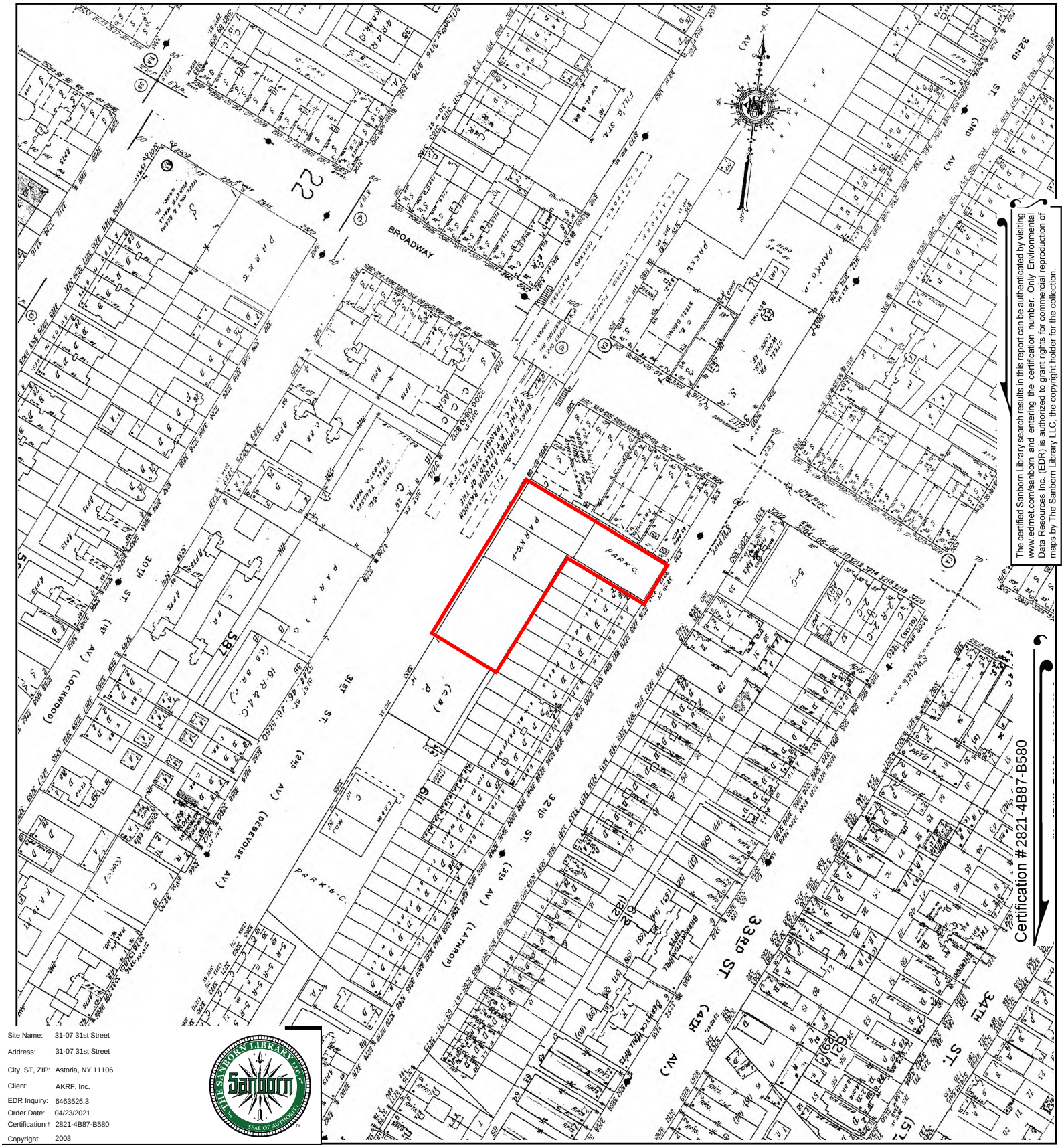




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Volume 2, Sheet 21

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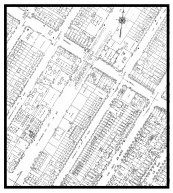


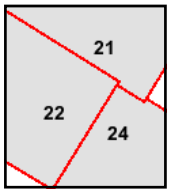
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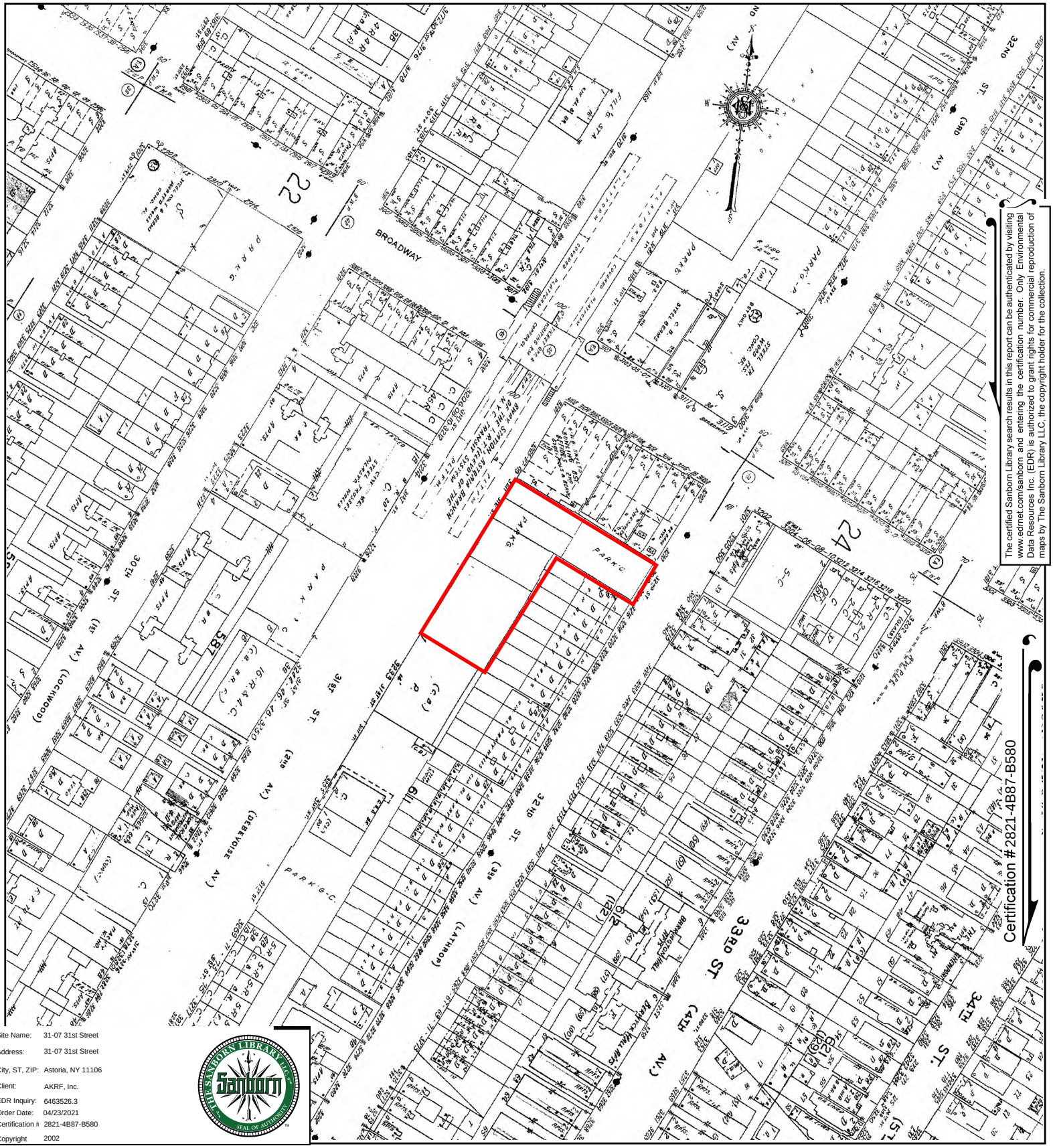
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Volume 2, Sheet 21

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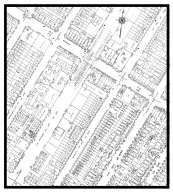


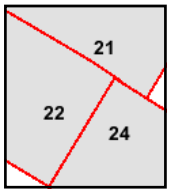
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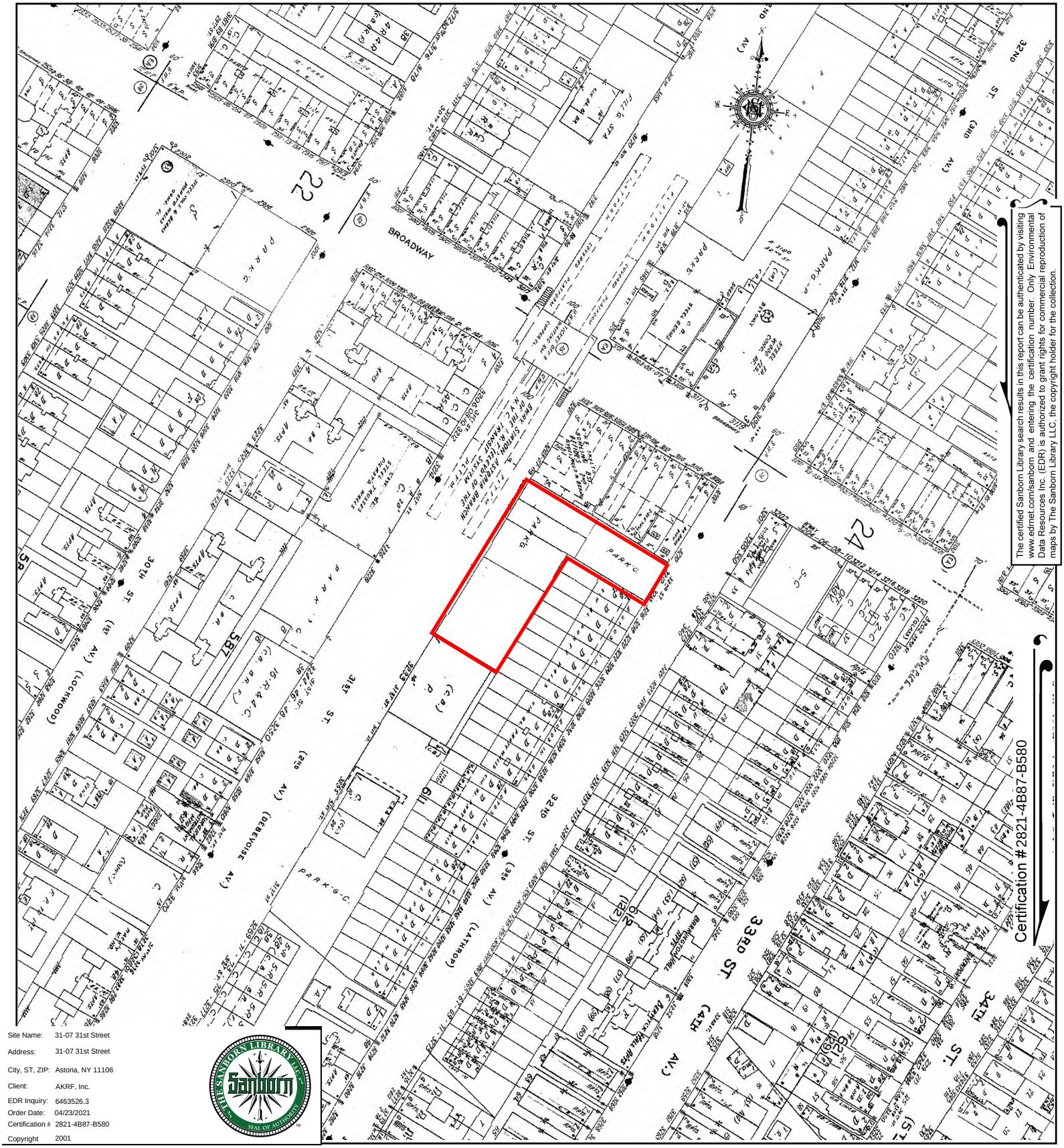
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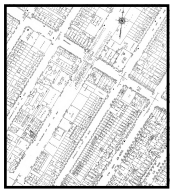


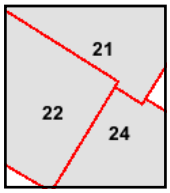
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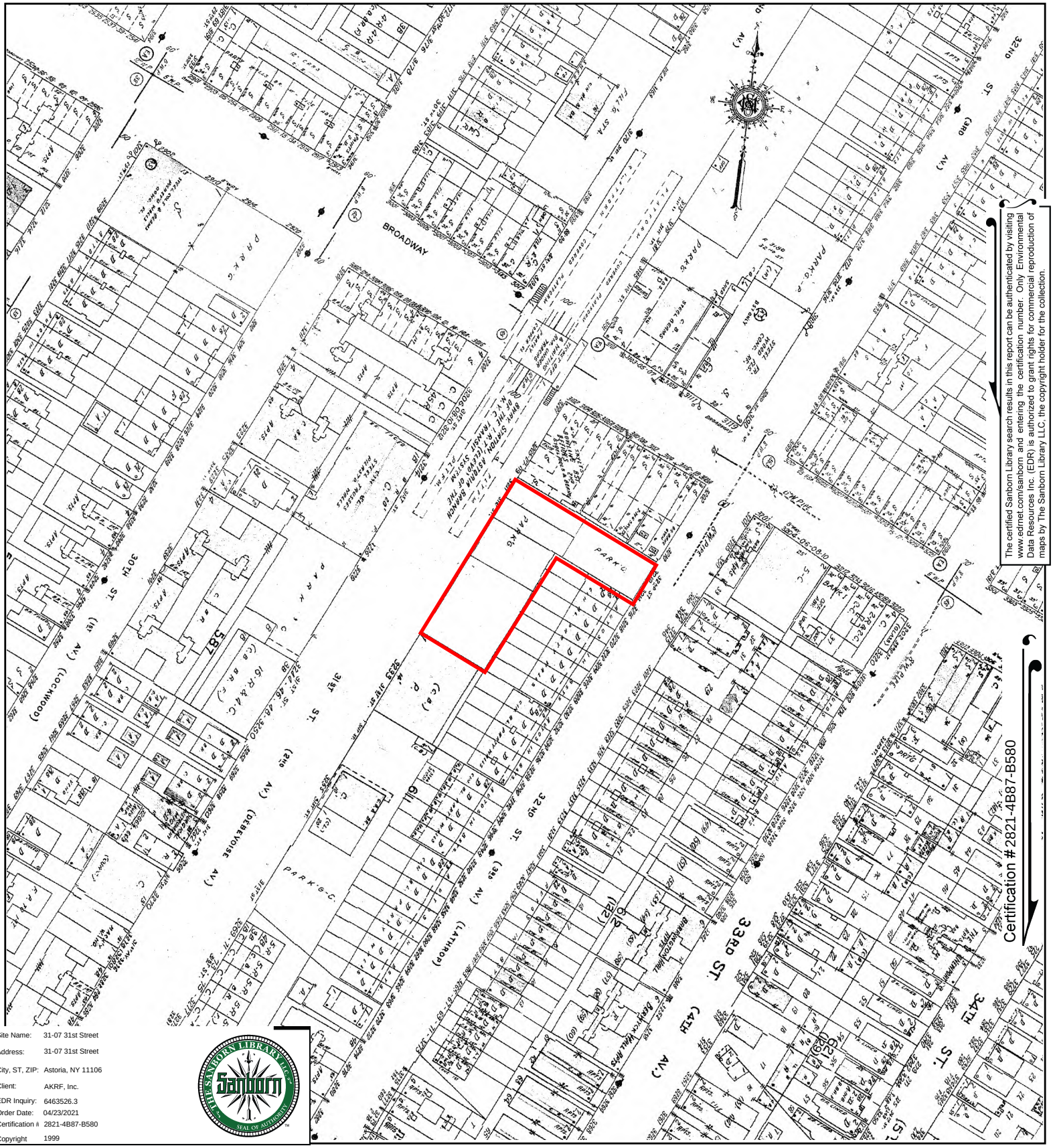
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Volume 2, Sheet 24

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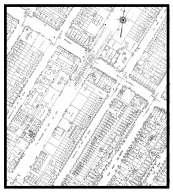


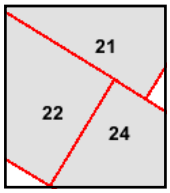
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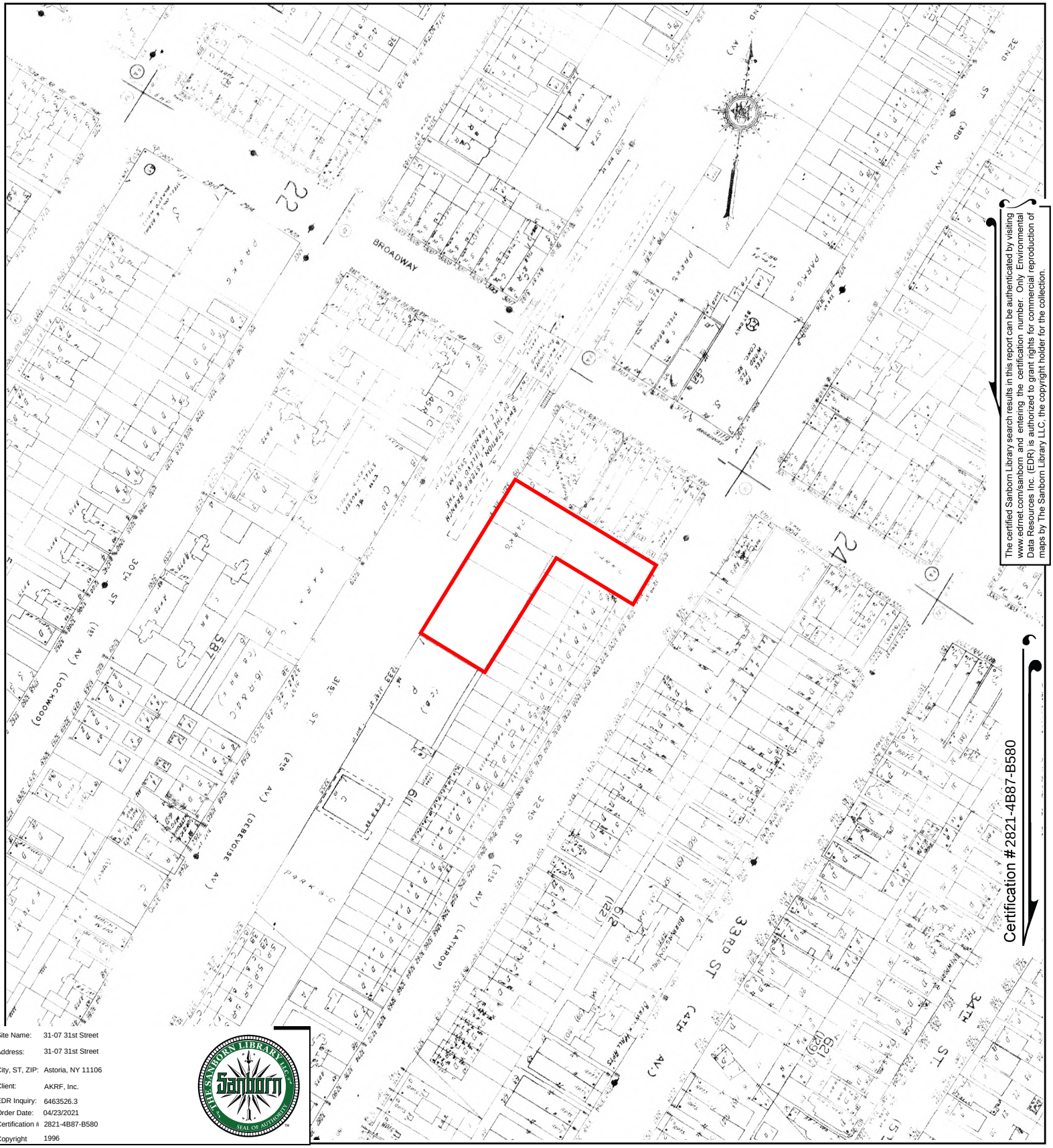
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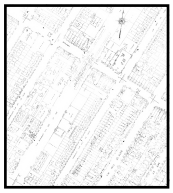
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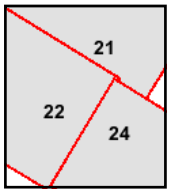


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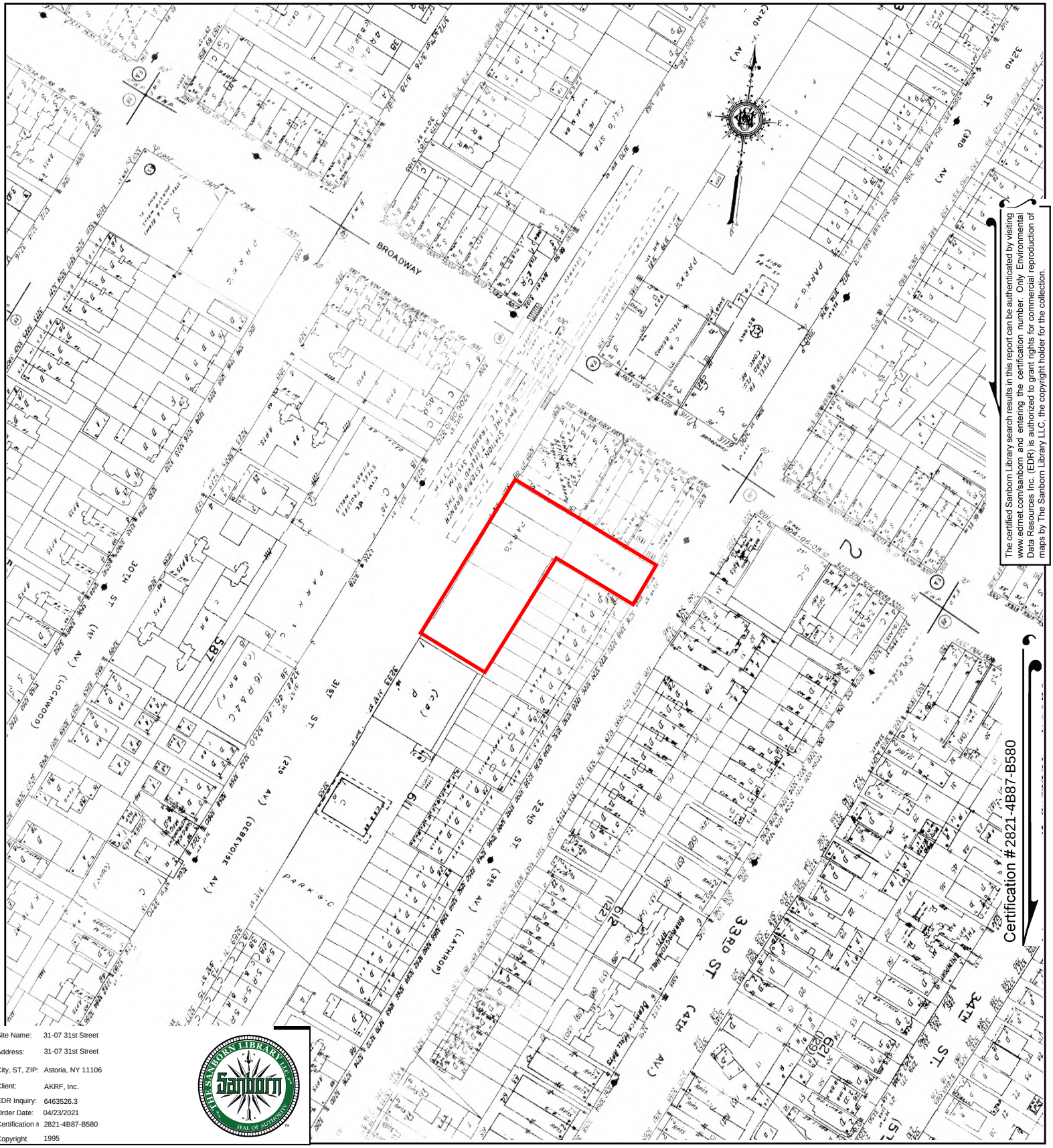




Volume 2, Sheet 24
Volume 2, Sheet 22
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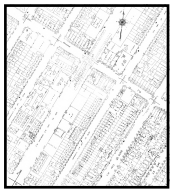


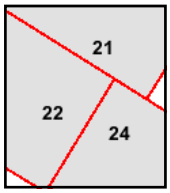
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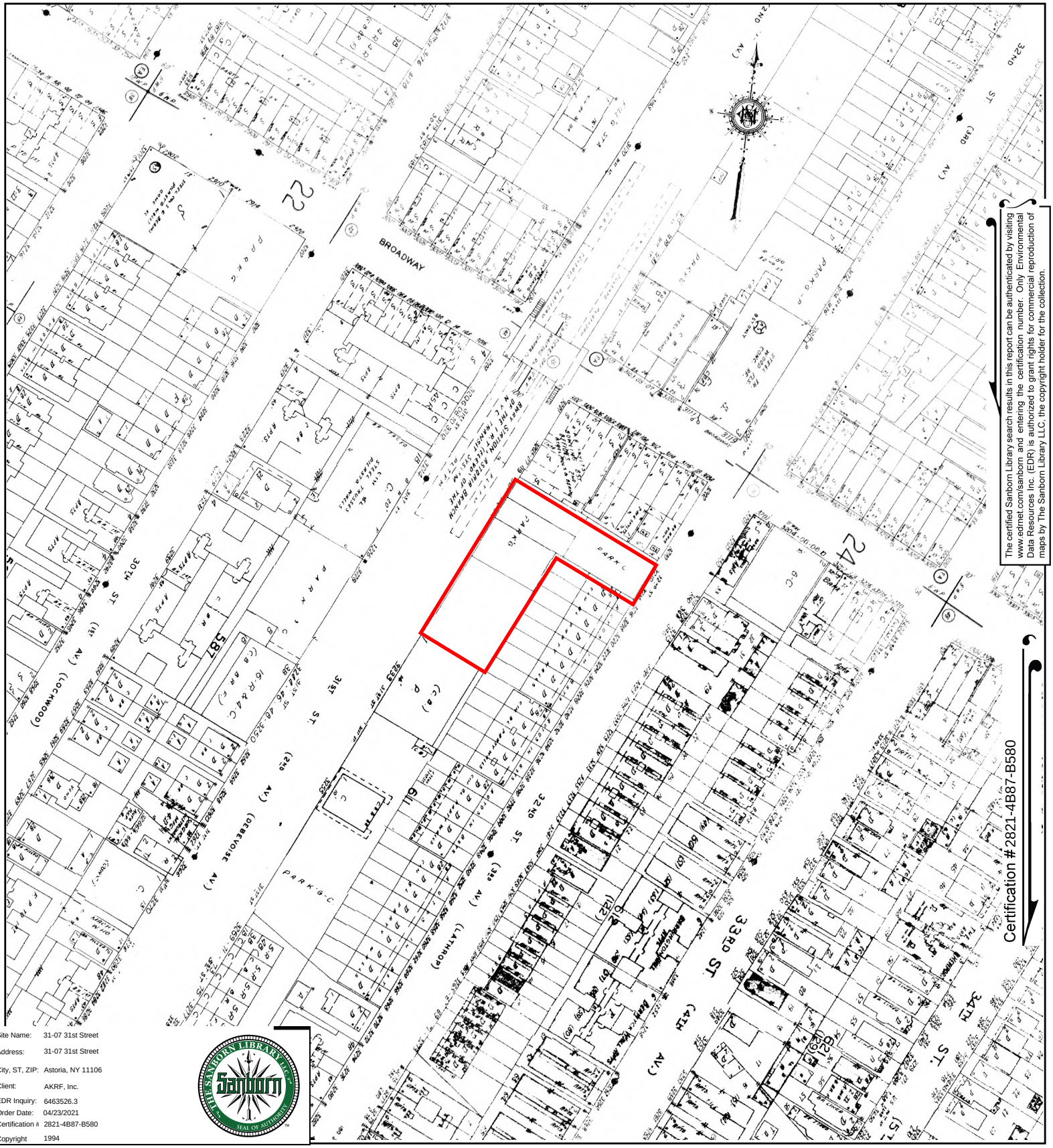
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Volume 2, Sheet 24
Volume 2, Sheet 22
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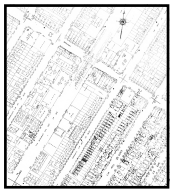


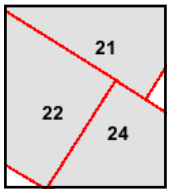
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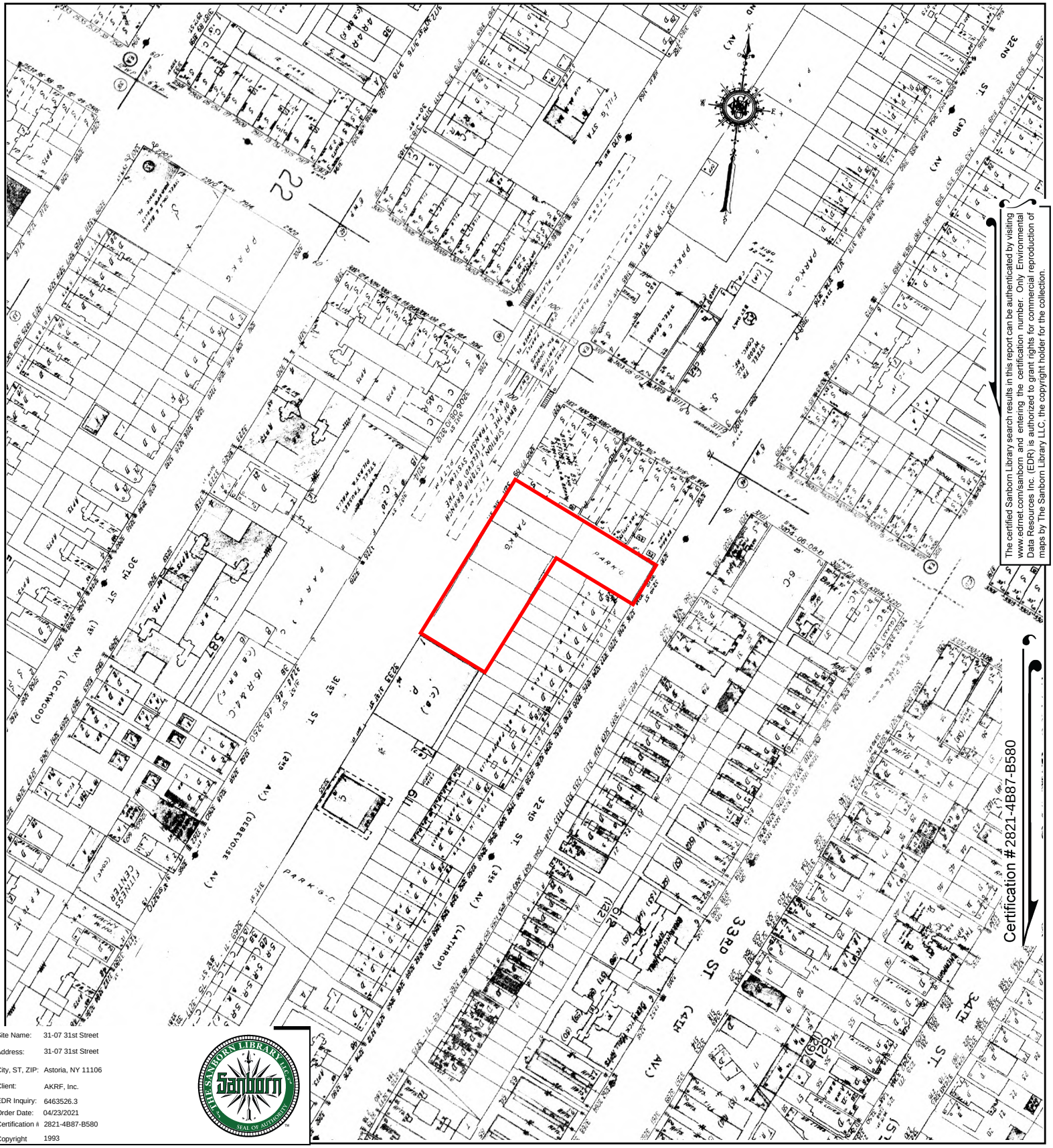
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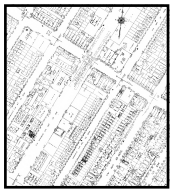
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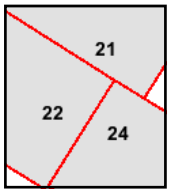


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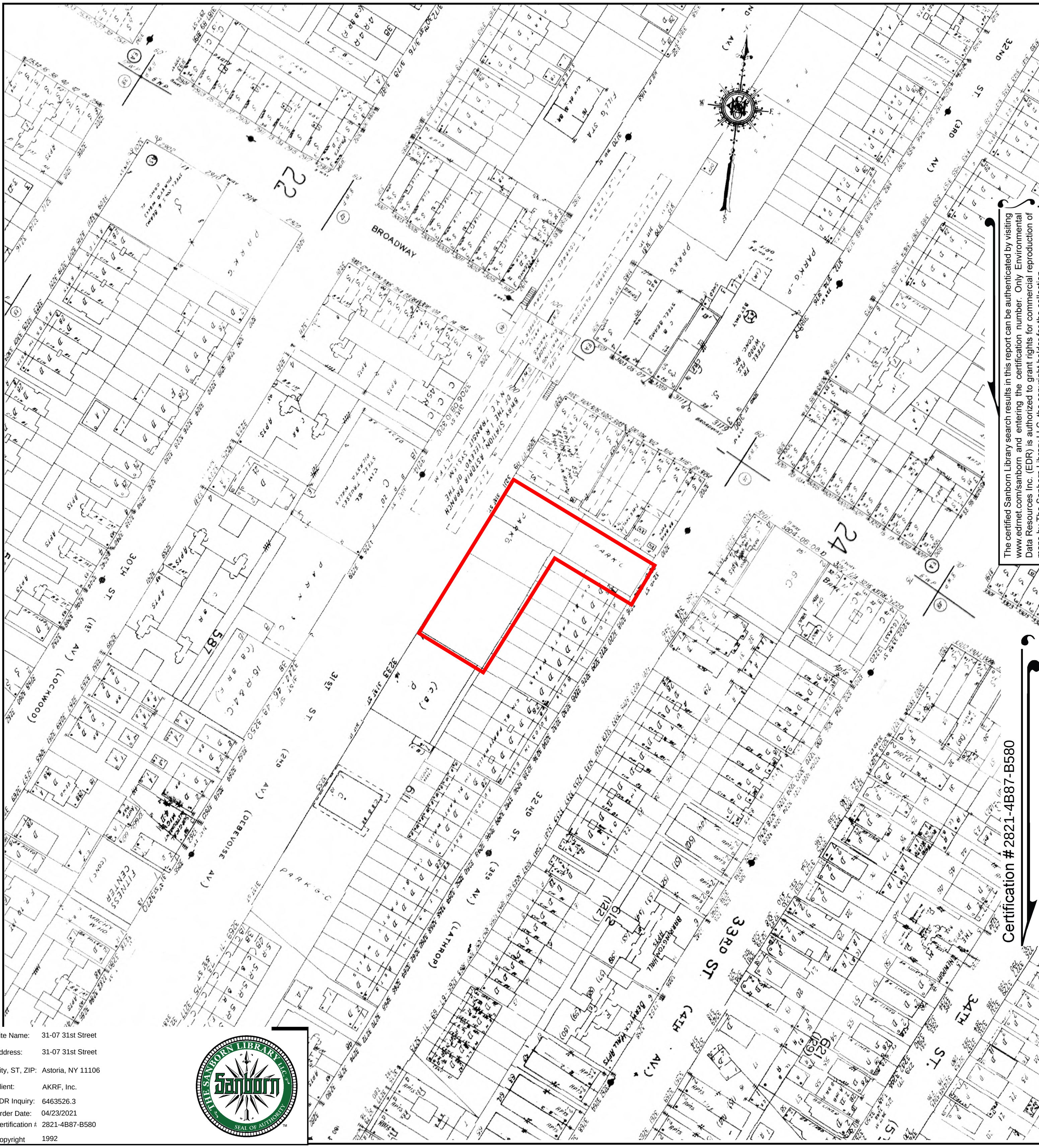


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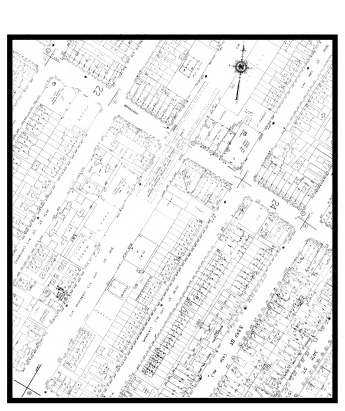
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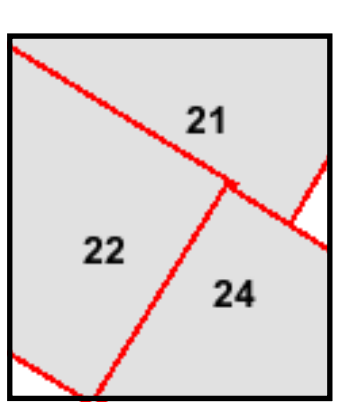
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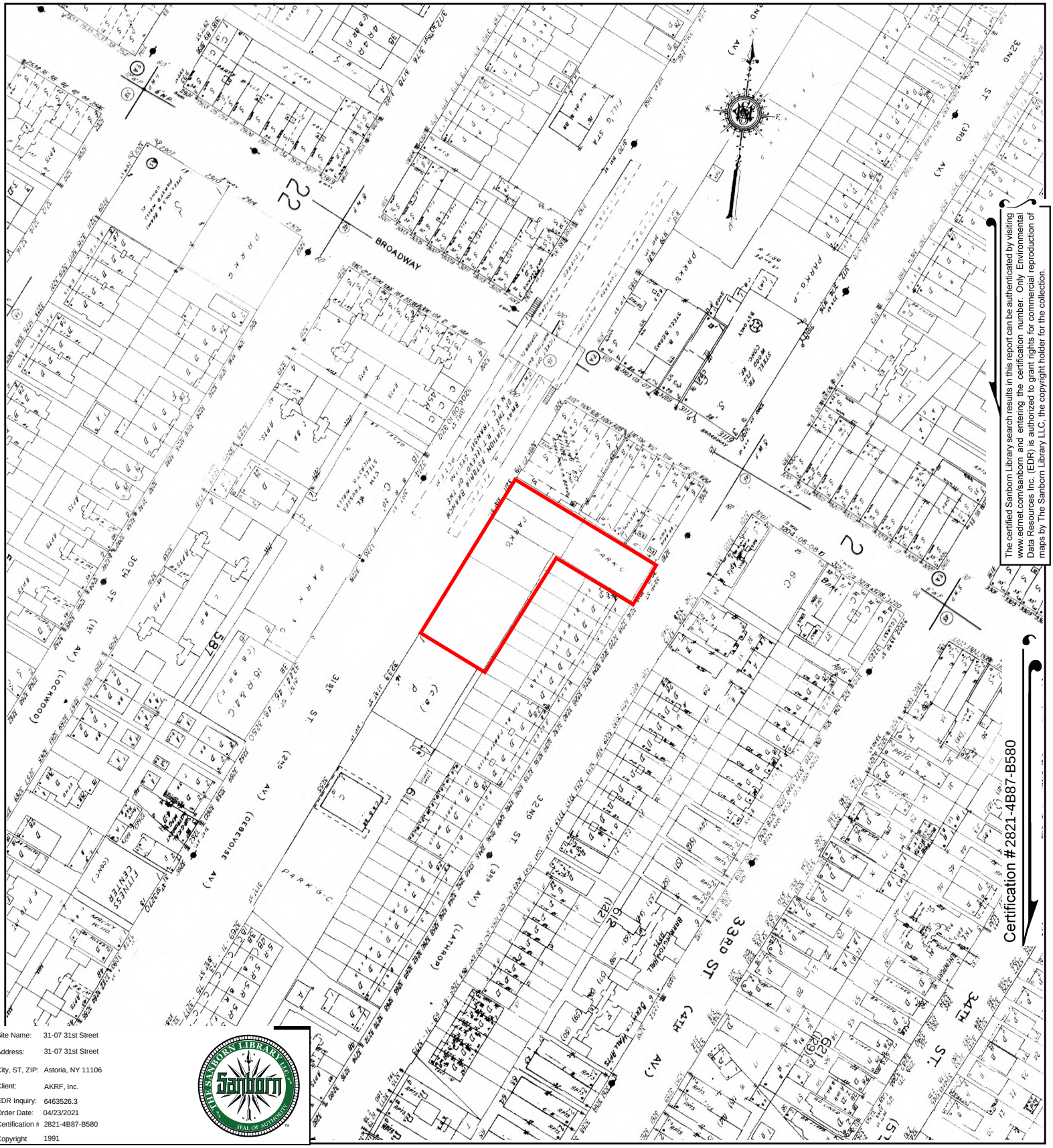
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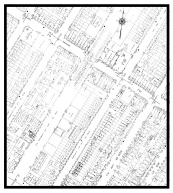
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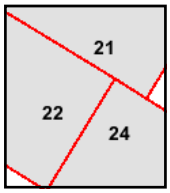
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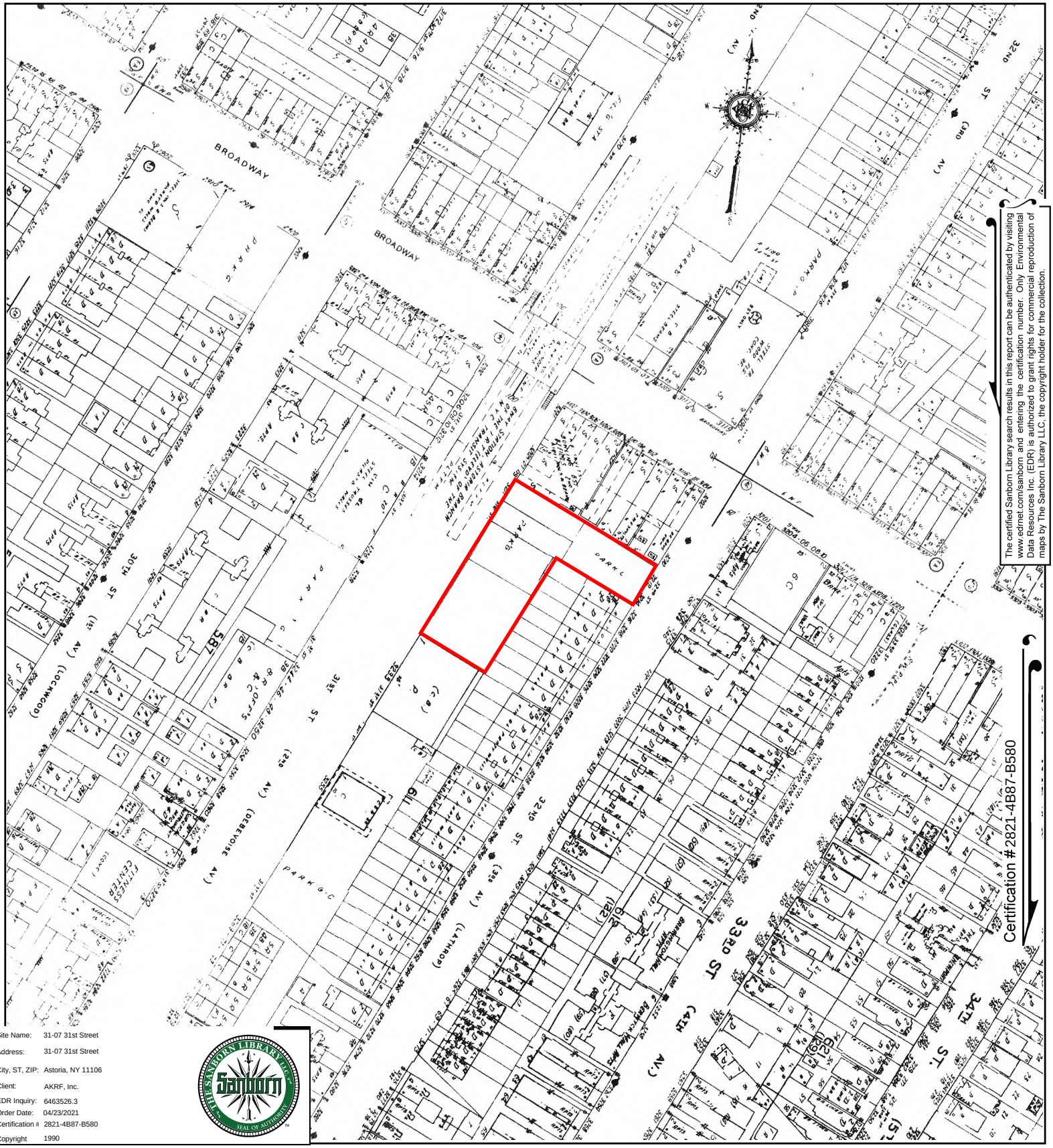
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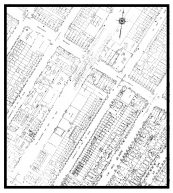
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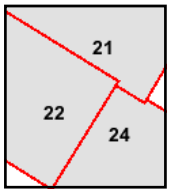
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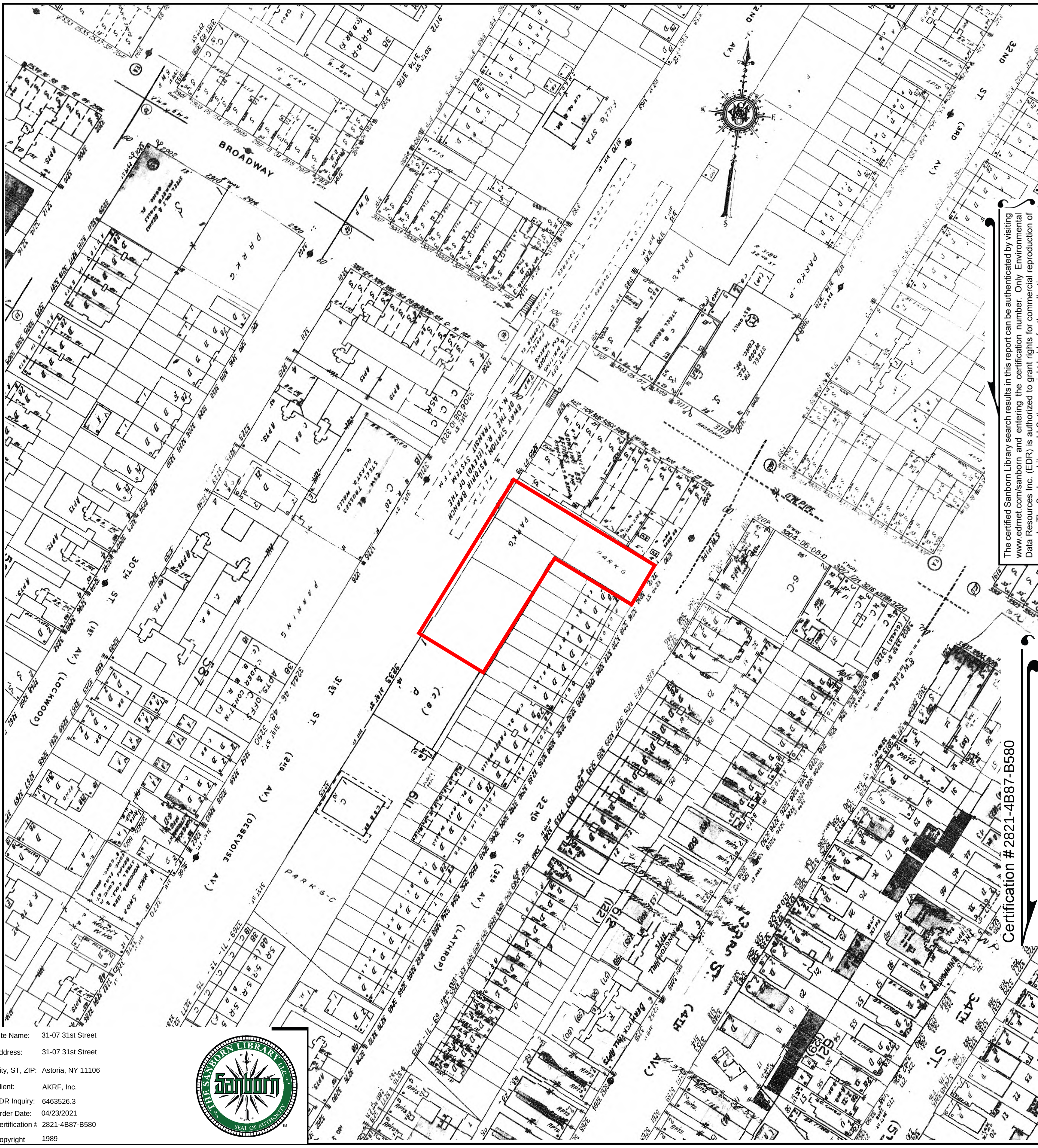
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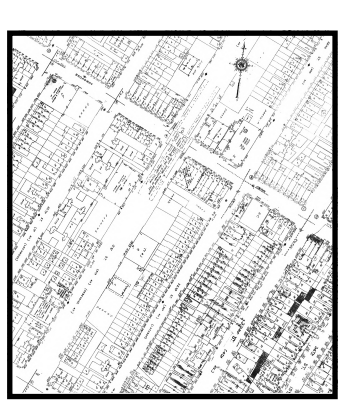
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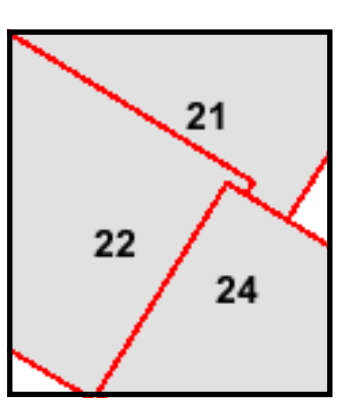
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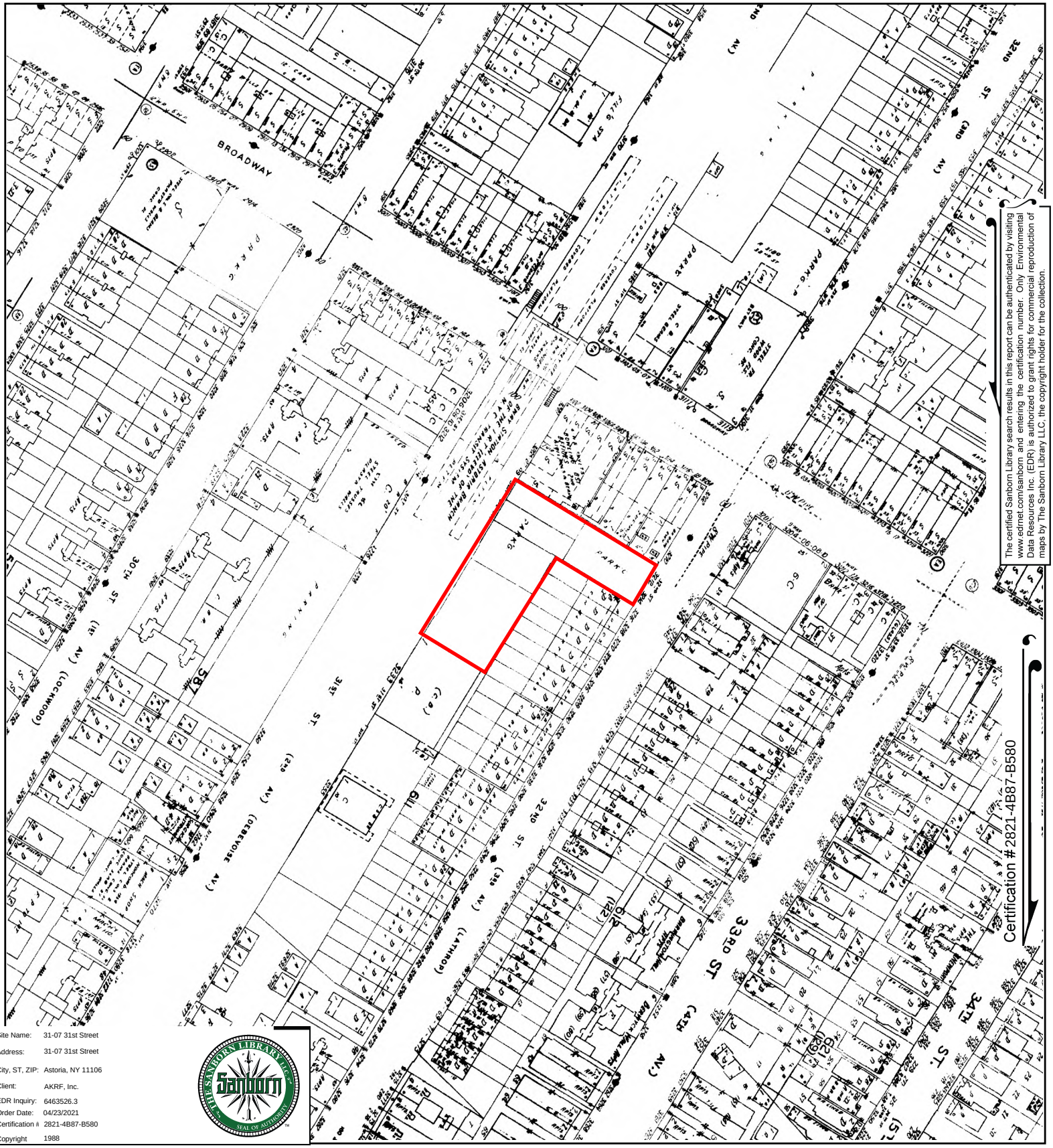


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1988

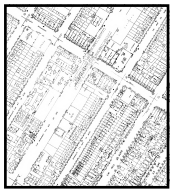


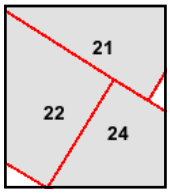
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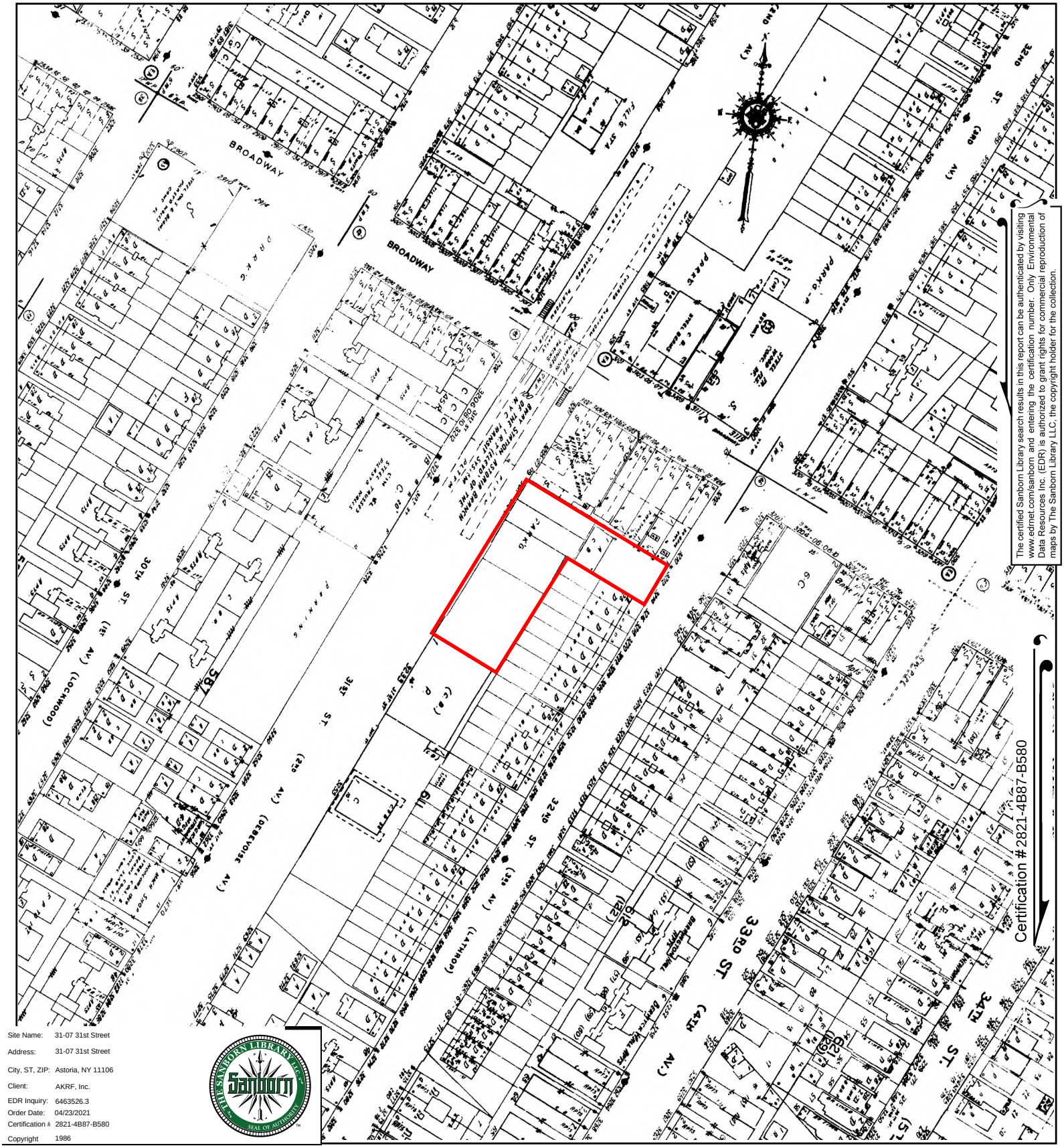
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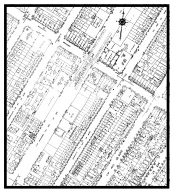


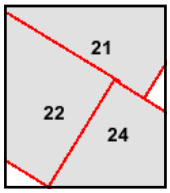
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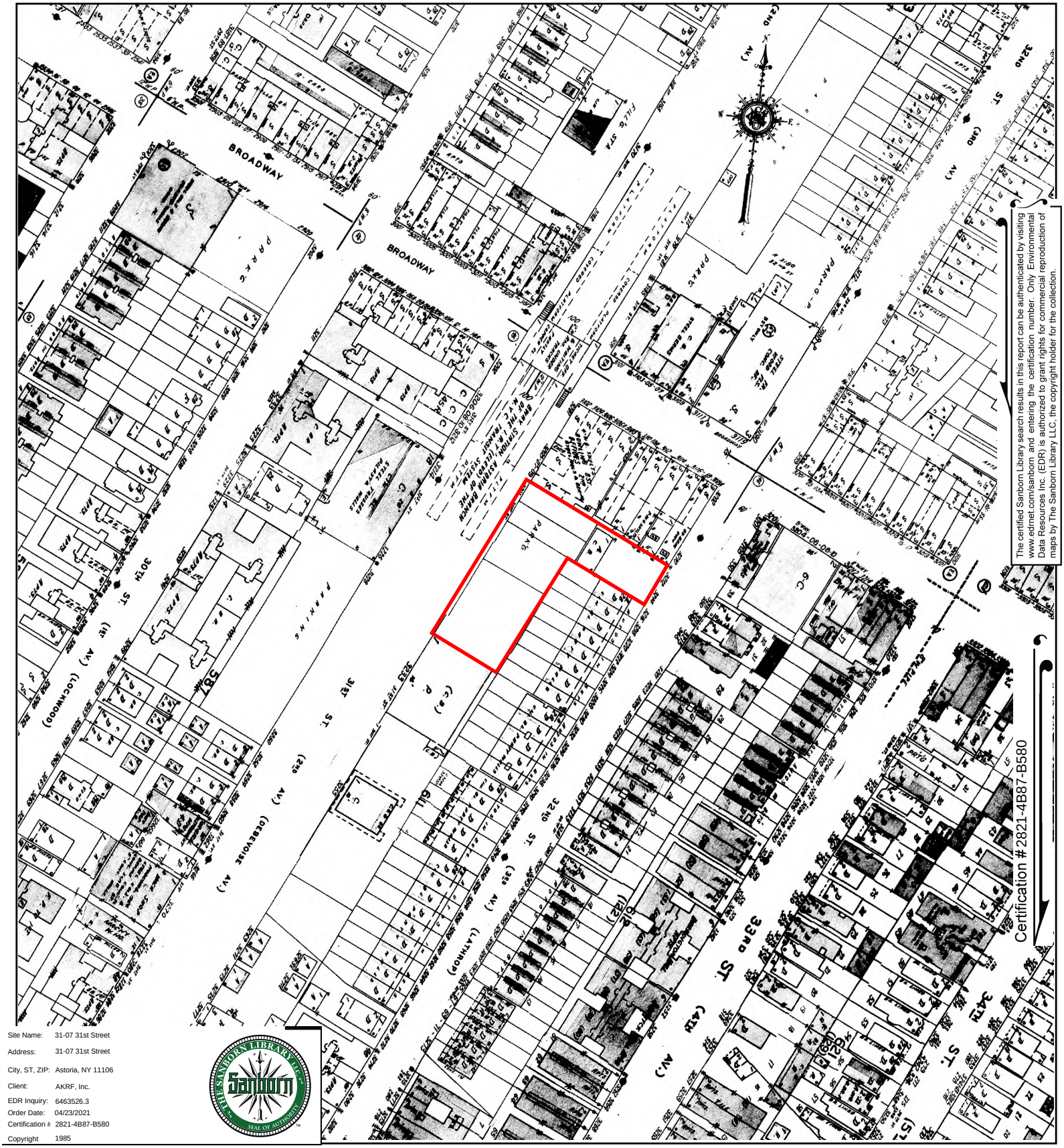
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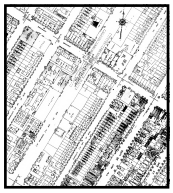


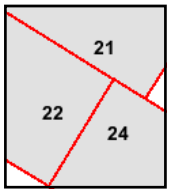
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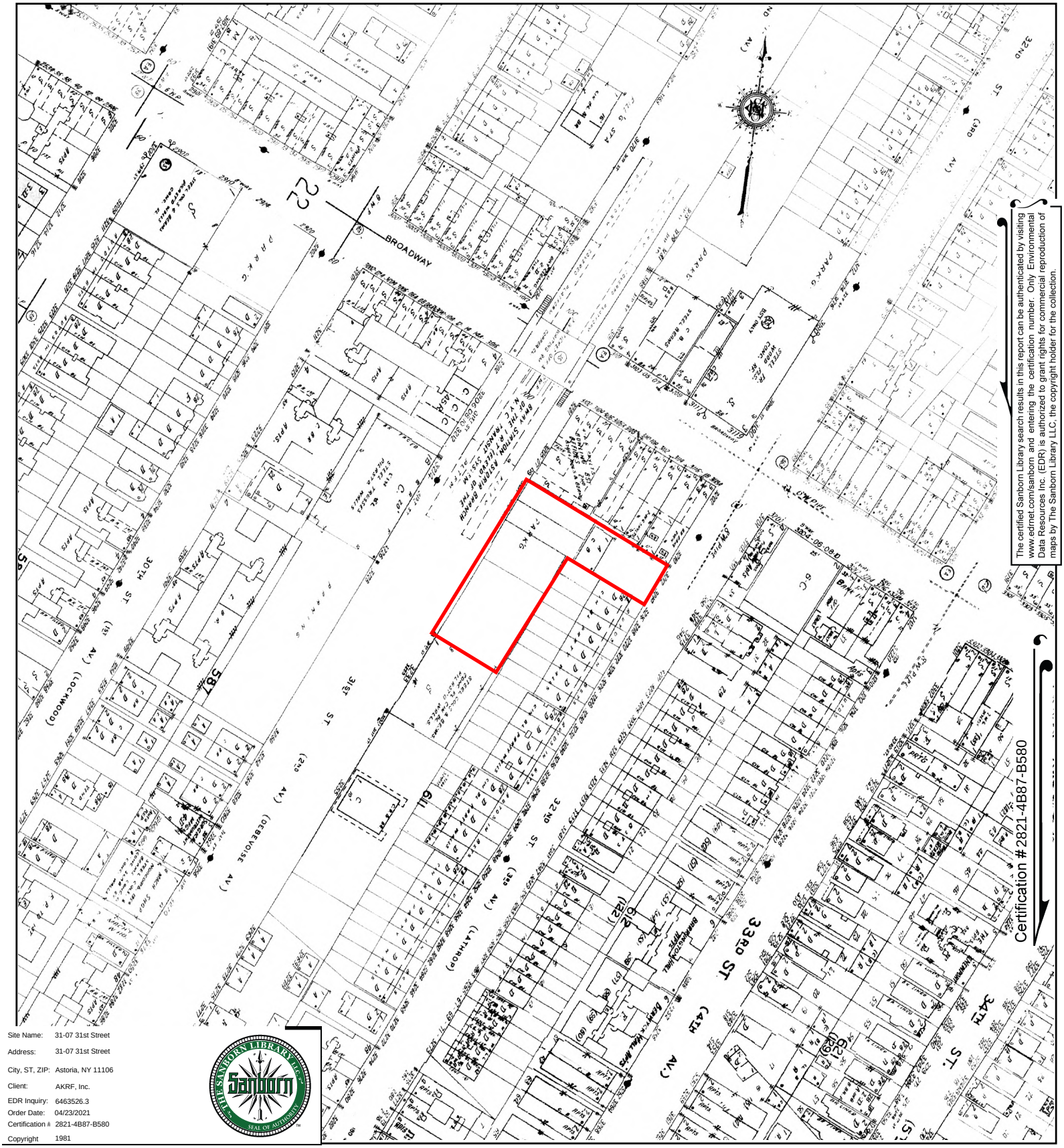
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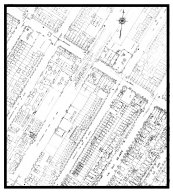


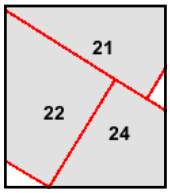
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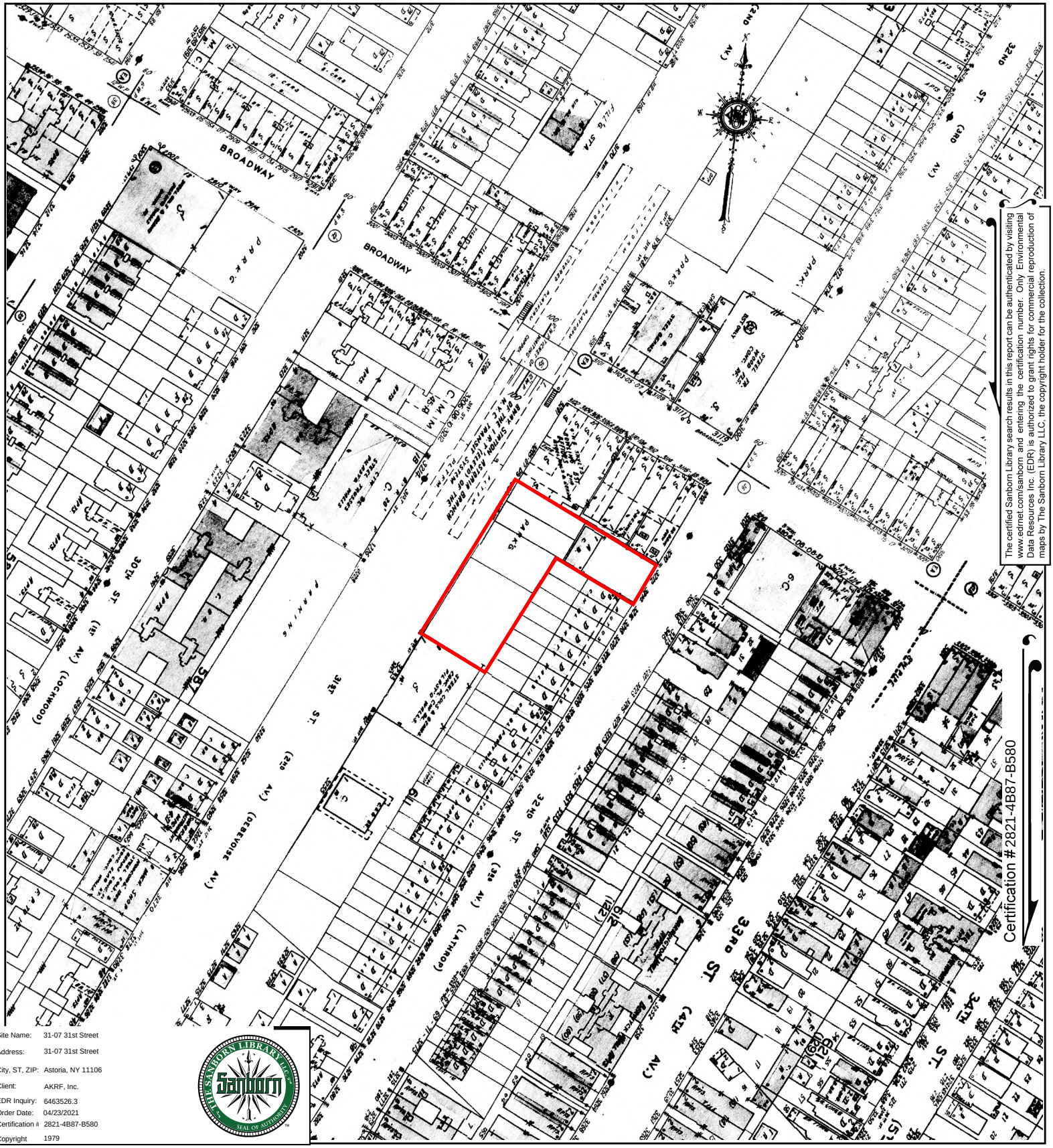


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1979

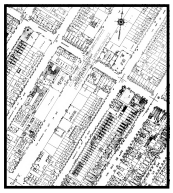


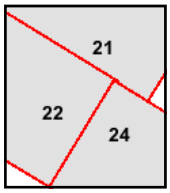
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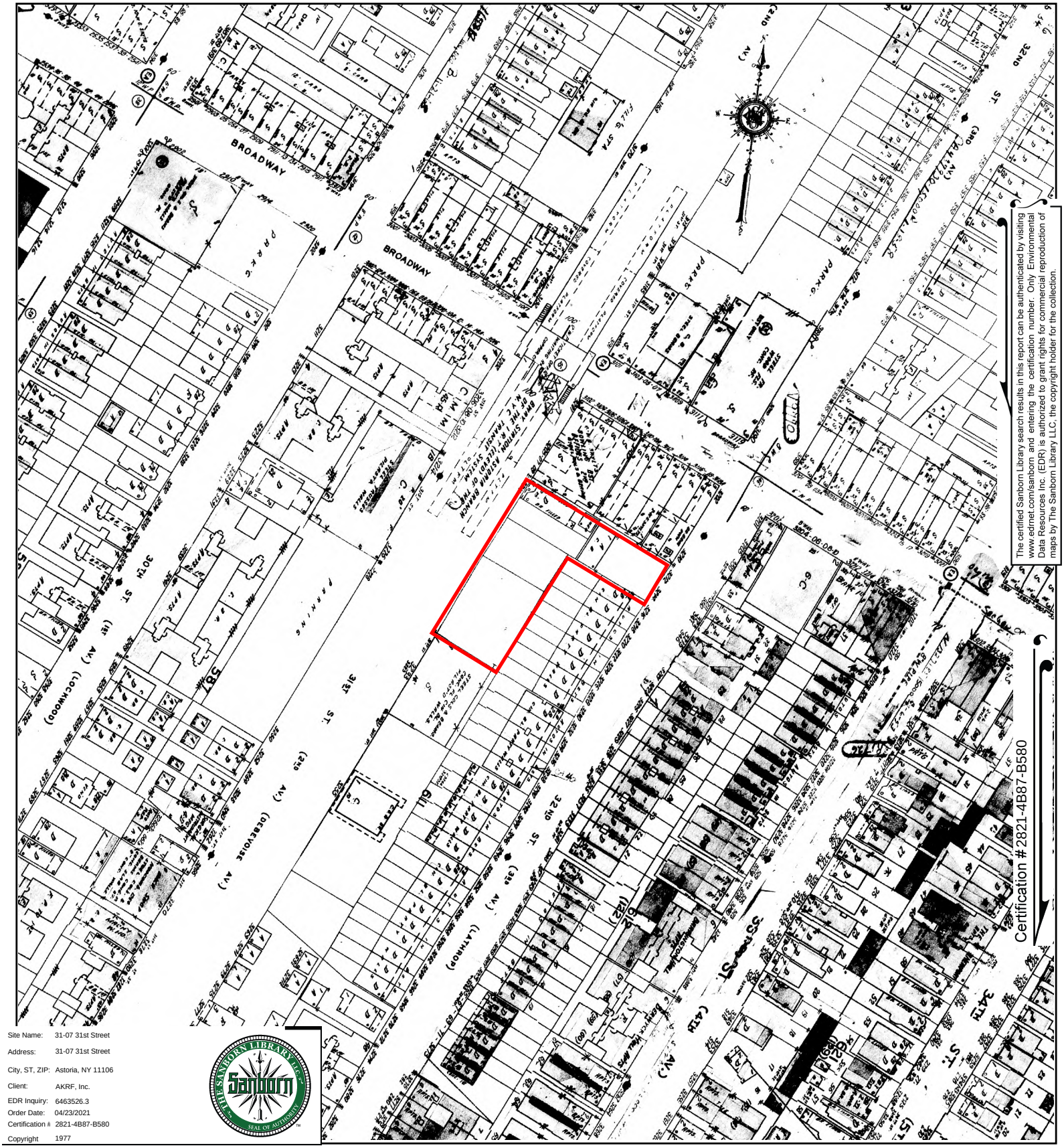
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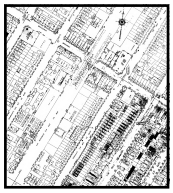
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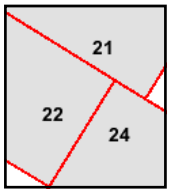


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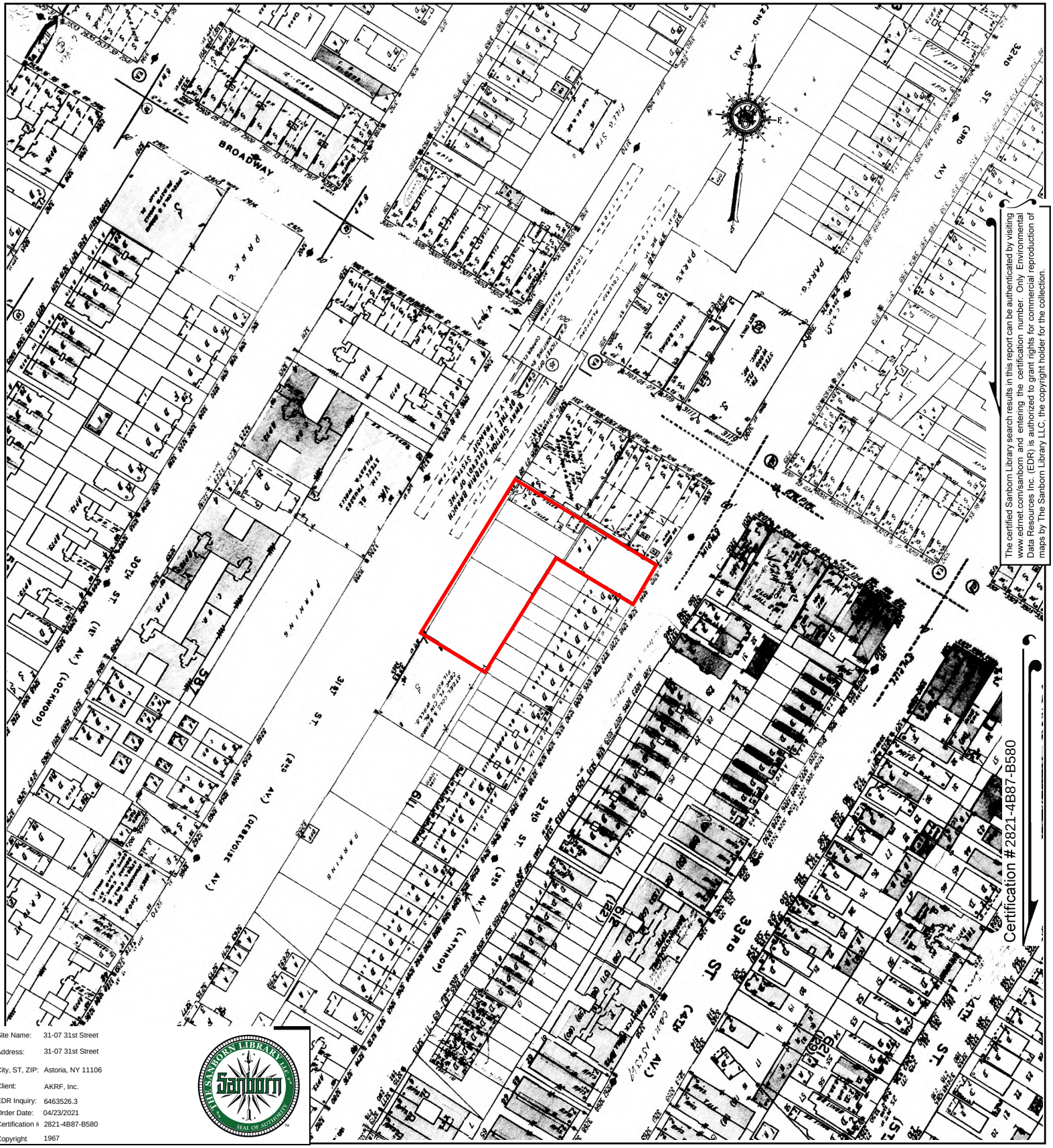




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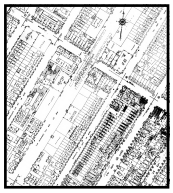
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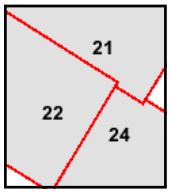
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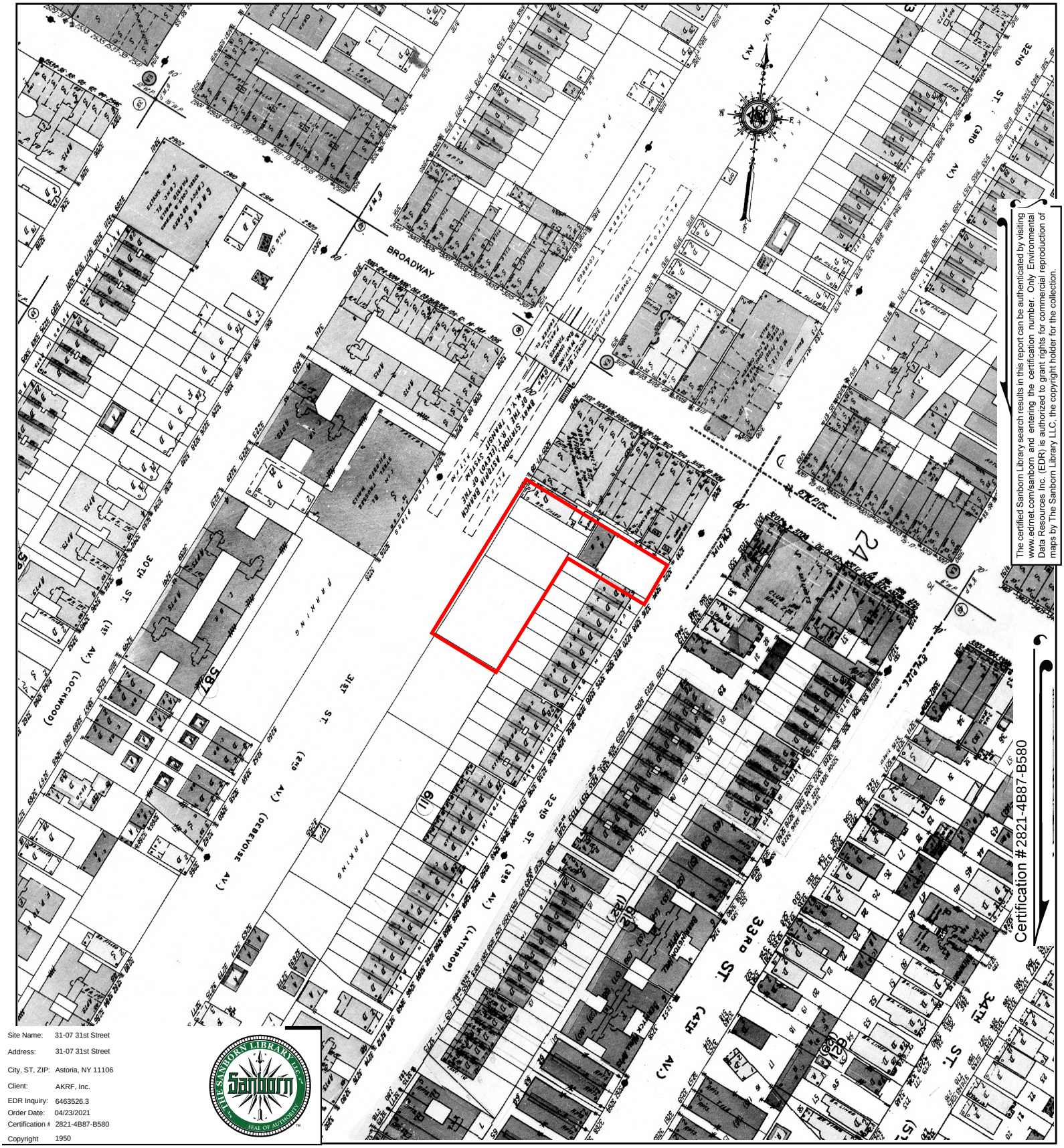
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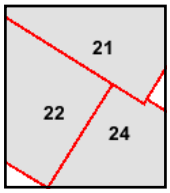
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Copyright	1950

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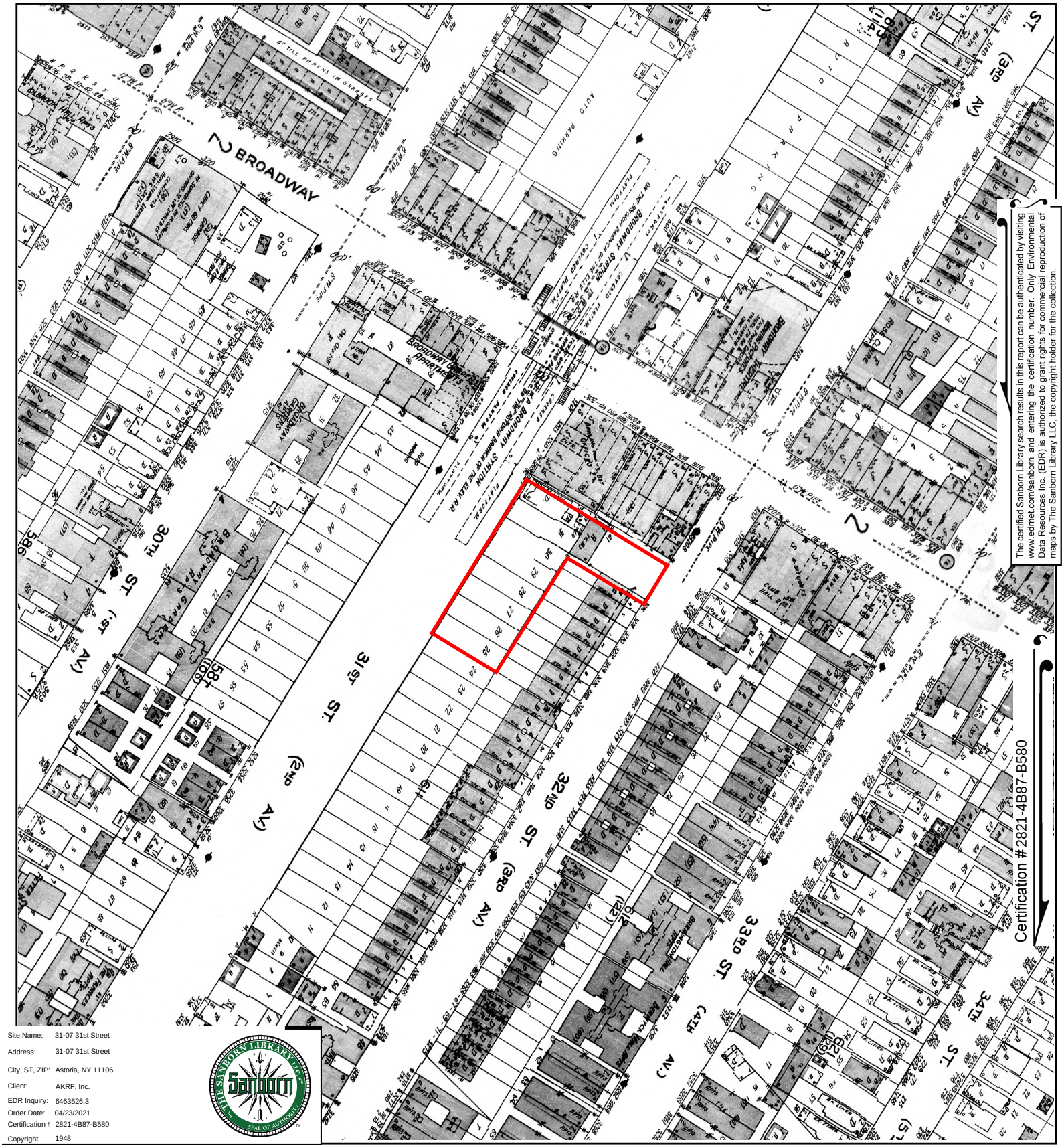
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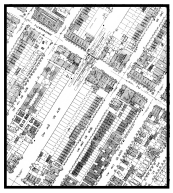


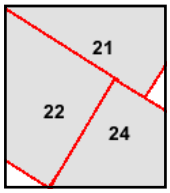
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City, ST, ZIP:	Astoria, NY 11106
Client:	AKRF, Inc.
EDR Inquiry:	6463526.3
Order Date:	04/23/2021
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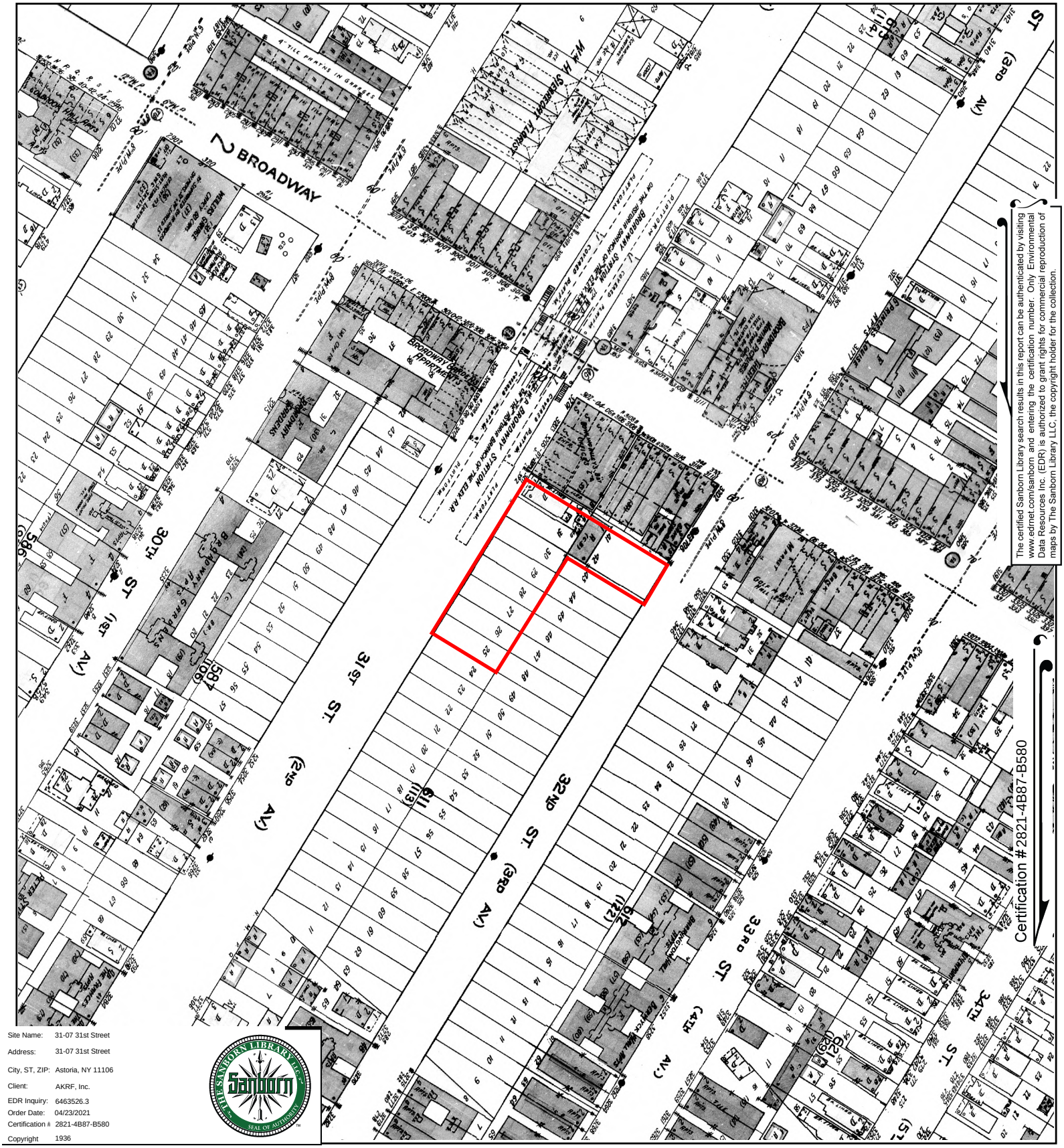
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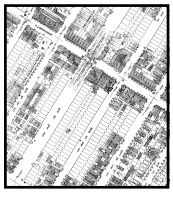


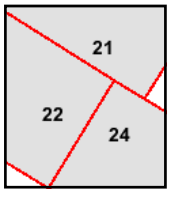
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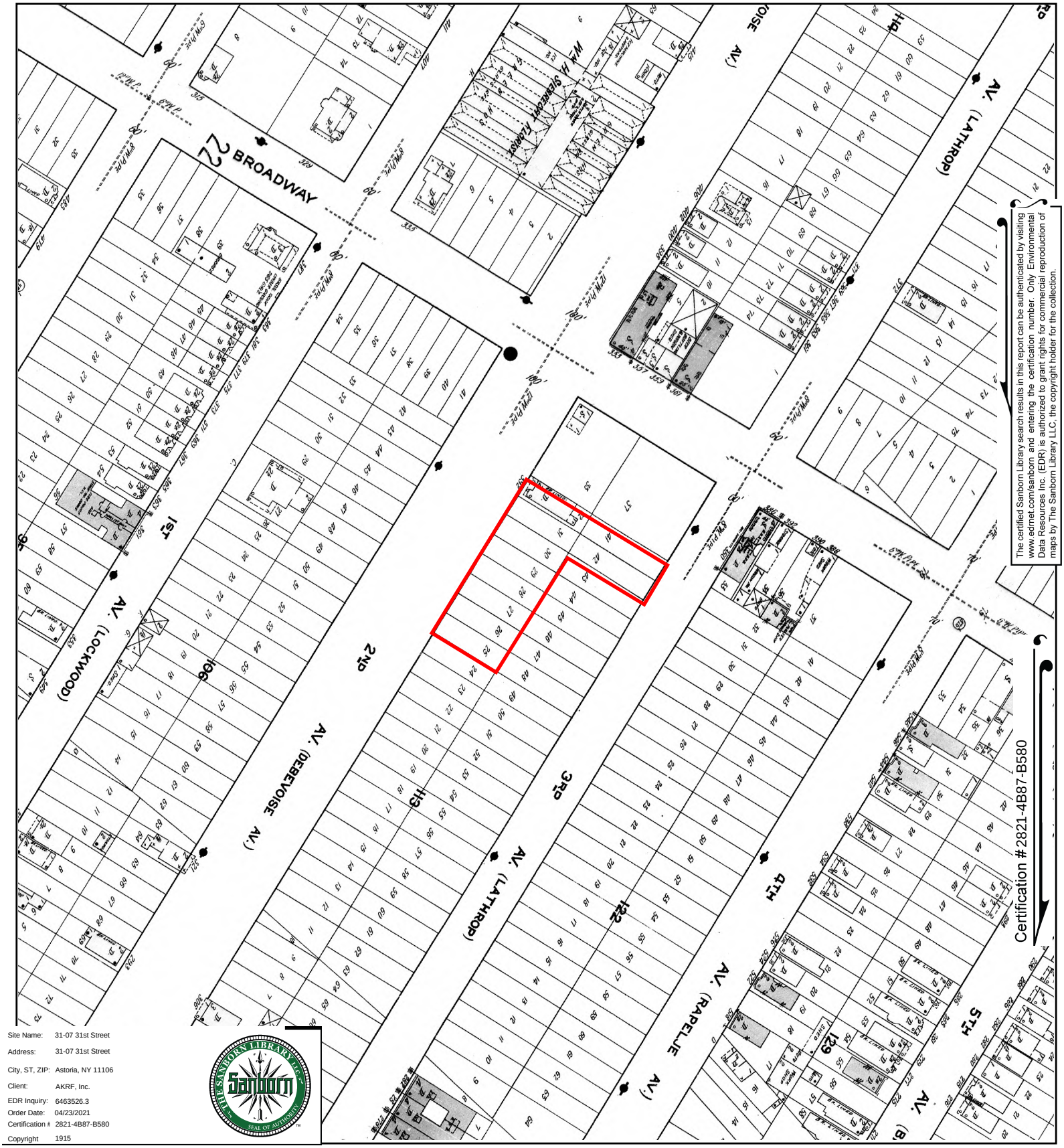
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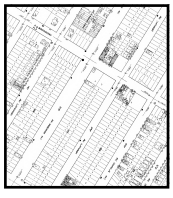
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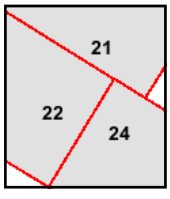


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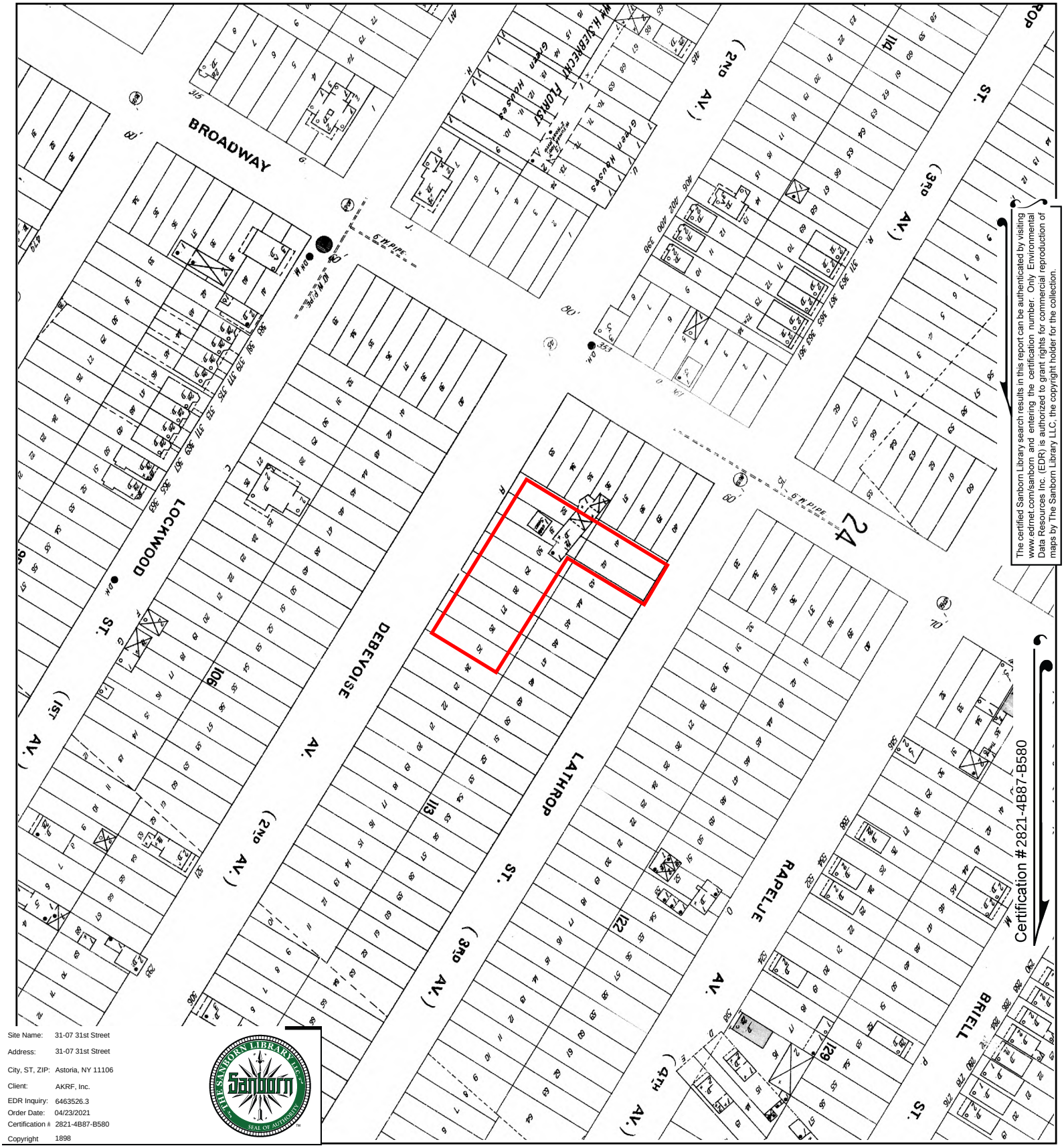




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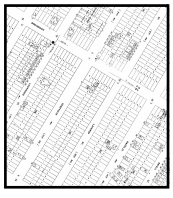
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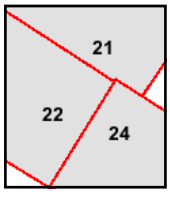


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APPENDIX D
STANDARDS, CRITERIA, AND GUIDANCE

1.0 SCGS FOR SITE CHARACTERIZATION AND REMEDIAL INVESTIGATION

The following standards and criteria typically will apply to Site Characterizations and Remedial Investigations conducted in New York State:

- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes
- 6 NYCRR Part 375 – Environmental Remediation Programs
- 6 NYCRR Parts 700-706 - Water Quality Standards
- 6 NYCRR Part 182 - Endangered & Threatened Species of Fish & Wildlife
- 6 NYCRR Part 608 - Use and Protection of Waters
- 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations
- 6 NYCRR Part 663 - Freshwater Wetlands Maps and Classification
- 6 NYCRR Part 257 - Air Quality Standards
- 10 NYCRR Part 5 of the State Sanitary Code - Drinking Water Supplies (May 1998)
- 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response
- 6 NYCRR Part 175 - Special Licenses and Permits--Definitions and Uniform Procedures
- Sampling, Analysis, And Assessment of Per- And Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs (April 2023)

The following guidance typically applies to Site Characterizations and Remedial Investigations conducted in New York State:

- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (October 1994)
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- Niagara River Biota Contamination Project: Fish Flesh Criteria for Piscivorous Wildlife (July 1987)
- Wildlife Toxicity Assessment for Cadmium in Soils (May 1999)
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006)

2.0 SCGS FOR REMEDY SELECTION

The following standards and criteria typically apply to the remedy selection process conducted in New York State:

- 6 NYCRR Part 375 - Environmental Remediation Programs
- 6 NYCRR Part 376 - Land Disposal Restrictions
- 6 NYCRR Part 608 - Use and Protection of Waters
- 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations
- 6 NYCRR Part 663 - Freshwater Wetlands - Permit Requirements
- 6 NYCRR Parts 700-706 - Water Quality Standards
- 19 NYCRR Part 600 - Waterfront Revitalization and Coastal Resources

The following guidance typically applies to the remedy selection process conducted in New York State:

- TAGM 4044 - Accelerated Remedial Actions at Class 2, Non-RCRA Regulated Landfills (March 1992)
- TAGM 4051 - Early Design Strategy (August 1993)
- Citizen Participation in New York's Hazardous Waste Site Remediation Program: A Guidebook (June 1998)
- TAGM 3028 - "Contained In" Criteria for Environmental Media: Soil Action Levels (August 1997)
- Freshwater Wetlands Regulations - Guidelines on Compensatory Mitigation (October 1993)
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- USEPA Office of Solid Waste and Emergency Response Directive 9355.047FS Presumptive Remedies: Policy and Procedures (September 1993)
- USEPA Office of Solid Waste and Emergency Response Directive 9355.048FS Presumptive Remedies:
- Site Characterization and Technology Selection for CERCLA sites with Volatile Organic Compounds in Soils (September 1993)
- USEPA Office of Solid Waste and Emergency Response Directive 9355.049FS Presumptive Remedy for CERCLA Municipal Landfills (September 1993)
- *Sampling, Analysis and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs* (April 2023)

3.0 SCGS FOR UNDERGROUND STORAGE TANK CLOSURE

The following standards and criteria typically apply to UST closures conducted in New York State:

- 6 NYCRR Part 612 - Registration of Petroleum Storage Facilities (February 1992)
- 6 NYCRR Part 613 - Handling and Storage of Petroleum (February 1992)
- 6 NYCRR Part 614 - Standards for New and Substantially Modified Petroleum Storage Tanks (February 1992)
- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes (November 1998)
- 6 NYCRR Subpart 374-2 - Standards for the Management of Used Oil
- 6 NYCRR Parts 700-706 - Water Quality Standards
- 40 CFR Part 280 - Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks

The following guidance typically applies to UST closures conducted in New York State:

- Spill Response Guidance Manual
- Permanent Closure of Petroleum Storage Tanks
- TAGM 3028 - "Contained In" Criteria for Environmental Media: Soil Action Levels (August 1997)
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- NYSDOH Environmental Health Manual CSFP-530 - “Individual Water Supplies - Activated Carbon Treatment Systems”

4.0 SCGS FOR REMEDIAL ACTION

The following standards and criteria typically apply to Remedial Actions conducted in New York State:

- 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response
- 40 CFR Part 144 - Underground Injection Control Program
- 10 NYCRR Part 67 – Lead
- 12 NYCRR Part 56 - Industrial Code Rule 56 (Asbestos)
- 6 NYCRR Part 175 - Special Licenses and Permits-Definitions and Uniform Procedures
- 6 NYCRR Part 361 - Siting of Industrial Hazardous Waste Facilities
- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes (November 1998)
- 6 NYCRR Part 372 - Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998)
- 6 NYCRR Subpart 373-4 - Facility Standards for the Collection of Household Hazardous Waste and Hazardous Waste from Conditionally Exempt Small Quantity Generators (November 1998)
- 6 NYCRR Subpart 374-1 - Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities (November 1998)
- 6 NYCRR Subpart 374-3 - Standards for Universal Waste (November 1998)
- 6 NYCRR Part 375 - Inactive Hazardous Waste Disposal Sites (as amended January 1998)
- 6 NYCRR Part 376 - Land Disposal Restrictions
- 19 NYCRR Part 600 - Waterfront Revitalization and Coastal Resources
- 6 NYCRR Part 608 - Use and Protection of Waters
- 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations
- 6 NYCRR Part 663 - Freshwater Wetlands - Permit Requirements
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- 6 NYCRR Part 750 through 758 - Implementation of NPDES Program in NYS (“SPDES Regulations”)
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- DER-31 Green Remediation (January 2011)

The following guidance typically applies to Remedial Actions conducted in New York State:

- TAGM 4013 - Emergency Hazardous Waste Drum Removal/ Surficial Cleanup Procedures (March 1996)
- TAGM 4046 - Determination of Soil Cleanup Objectives and Cleanup Levels (January 1994)
- TAGM 4059 - Making Changes To Selected Remedies (May 1998)
- TAGM 3028 - "Contained In" Criteria for Environmental Media: Soil Action Levels (August 1997)

- Citizen Participation in New York's Hazardous Waste Site Remediation Program: A Guidebook (June 1998)
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- TOGS 1.3.8 - New Discharges to Publicly Owned Treatment Works
- TOGS 2.1.2 - Underground Injection/Recirculation (UIR) at Groundwater Remediation Sites
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- State Coastal Management Policies
- OSWER Directive 9200.4-17 - Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites (November 1997)
- NYSDOH Environmental Health Manual CSFP-530 - "Individual Water Supplies - Activated Carbon Treatment Systems"

5.0 SCGS FOR SITE MANAGEMENT

The following standards and criteria typically apply to Site Management activities conducted in New York State:

- 6 NYCRR Part 175 - Special Licenses and Permits--Definitions and Uniform Procedures

The following guidance typically applies to Site Management activities conducted in New York State:

- Groundwater Monitoring Well Decommissioning Procedures (May 1995)
- The activity is a component of a program selected by a process complying with the public participation requirements of section 1.10, to the extent applicable.
- NYSDOH Environmental Health Manual CSFP-530 - "Individual Water Supplies - Activated Carbon Treatment Systems"

APPENDIX E
PREVIOUS REPORTS

Environmental, Planning, and Engineering Consultants
440 Park Avenue South
7th Floor
New York, NY 10016
tel: 212 696-0670
fax: 212 213-3191
www.akrf.com

June 16, 2021

Mr. Emanuel Kokinakis
Development Manager
Mega Development LLC
48-02 25th Avenue, Suite 400
Astoria, New York 11103

Re: **Phase I Environmental Site Assessment**
31-07 31st Street
Astoria, New York
AKRF Project Number 210124

Dear Mr. Kokinakis:

AKRF, Inc. (AKRF) is pleased to submit this Phase I Environmental Site Assessment Report for the above-referenced Property. This report includes the findings of a reconnaissance of the Property, an evaluation of readily available historical information and selected environmental databases and electronic records. AKRF met the requirements of the American Society for Testing and Materials (ASTM) as established by ASTM Standard E1527-13 unless noted otherwise in Section 9.0: "Limitations and Data Gaps".

We appreciate the opportunity to provide you with our services. If you should have any questions, please do not hesitate to contact Deborah at 646-388-9544.

Sincerely,
AKRF, Inc.

Deborah Shapiro, QEP
Sr. Vice President

EXECUTIVE SUMMARY

AKRF, Inc. (AKRF) was retained by Mega Development LLC to prepare a Phase I Environmental Site Assessment (ESA) of 31-07 31st Street, located in Astoria, Queens (the "Property"). The Property was identified as Queens Tax Block 611, Lot 25. The Property was generally bounded by commercial units to the north, residential/institutional units to the south, commercial/residential units and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). The Property consisted of an existing 20,880 square-foot municipal parking facility.

The greater surrounding area was primarily commercial/retail with some residential and transit uses. The objective of this assessment was to identify any potential environmental concerns associated with the Property resulting from past or current usage of the Property or neighboring properties.

This Phase I Environmental Site Assessment was performed in conformance with ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice*. Any exceptions to, or deletions from, the Standard and/or data gaps are described in Section 9.0. The term "Recognized Environmental Condition" (REC) means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The Standard also includes definitions of Historic REC (HREC), Controlled REC (CREC), and *De Minimis* Condition. A *De Minimis* Condition is defined as an environmental concern that is not a threat to human health or the environment and would not be subject to enforcement action.

A Tier 1 Vapor Encroachment Screen was also conducted in accordance with ASTM Standard E2600-15, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. The term "Vapor Encroachment Condition" (VEC) means the presence or likely presence of vapors from chemicals of concern (COC) in the subsurface of a property caused by the release of vapors on or near the property.

A summary of the assessment findings is presented below:

Recognized Environmental Conditions (RECs)/Vapor Encroachment Conditions (VECs)

- One groundwater monitoring well was observed on 31st Street sidewalk west-adjacent of the Property.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry cleaning uses in the surrounding area.

Business Environmental Risks (including items outside the scope of ASTM E1527-13 such as asbestos containing material [ACM], lead-based paint [LBP] and/or polychlorinated biphenyls [PCBs] in building materials or fill/debris)

- Buried demolition debris from former on-site structures could contain ACM, LBP, PCBs and/or underground storage tanks.

De minimus

- Three five-gallon containers of orphan waste were located on the southeaster-most corner of the Property. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked. These containers should be removed from the Property and properly disposed of in accordance with federal, state, and local requirements.

Recommendations

- A subsurface (Phase II) investigation should be conducted at the Property to investigate the identified RECs/VECs.

- During any future subsurface disturbance, excavated soil should be handled and disposed of in accordance with all applicable regulatory requirements, with testing as required. Any evidence of a petroleum spill must be reported to the NYSDEC and addressed in accordance with applicable requirements. If any tanks are encountered, they should be properly assessed, closed, and removed in accordance with federal, state, and local regulations. Transportation of material leaving the Property for off-site disposal should be in accordance with federal, state, and local requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.
- If dewatering is required during future construction activities, water must be discharged in accordance with the New York City Department of Environmental Protection (NYCDEP) requirements.
- Any activities with the potential to disturb LBP must be performed in accordance with applicable requirements (including federal Occupational Safety and Health Administration regulation 29 CFR 1926.62 - Lead Exposure in Construction) and NYC Local Laws regarding tenant notification, contractor licensing, abatement procedures, etc. Additional requirements, even if no disturbance is planned (e.g., tenant notification, inspections, contractor licensing, and abatement) apply to occupied residential buildings.
- Unless there is labeling or test data that indicates that fluorescent lights and other electrical equipment are not mercury- and/or PCB-containing, if disposal is required, it should be performed in accordance with applicable federal, state, and local regulations and guidelines.
- Any suspect ACM- containing material and/or LBP encountered during excavation should be properly characterized, managed and disposed of in accordance with applicable regulations.

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FIGURES

Figure 1 - Property Location

Figure 2 - Property Detail

APPENDICES

Appendix A - Photographic Documentation

Appendix B - Historical Sanborn Maps

Appendix C - City Directories

Appendix D - Regulatory Records Review

Appendix E - Local Records and FOILs

Appendix F – User Questionnaire

1.0 INTRODUCTION

AKRF, Inc. (AKRF) was retained by Mega Development LLC (User or Client) to prepare a Phase I Environmental Site Assessment (ESA) of 31-07 31st Street, located in Astoria, Queens (the "Property"). The Property was identified as Queens Tax Block 611, Lot 25. The Property was generally bounded by commercial units to the north, residential/commercial units to the south, commercial/residential units and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). The Property consisted of an existing approximately 0.5-acre municipal parking facility (as shown on Figure 2).

The objective of this assessment was to identify any potential environmental concerns associated with the Property resulting from past or current usage of the Property or surrounding properties.

The scope of services for this assessment was in conformance with ASTM Standard E1527-13 (*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice)* and ASTM Standard E2600-15 (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*). Any exceptions to, or deletions from, this practice are described in Section 9.0. The scope included the following:

- Observations of accessible portions of the Property (reconnaissance) to identify potential sources or indications of hazardous substances, including: aboveground storage tanks (ASTs); underground storage tanks (USTs); tank vents and fill ports; transformers and other items that could contain polychlorinated biphenyls (PCBs), drums or areas where hazardous materials were used, stored, or disposed; stained surfaces and soils; leaks; odors. In addition, neighboring properties were viewed, but only from public rights-of-way, to identify similar concerns.
- Readily available geological and groundwater (hydrogeological) information was evaluated to assist in determining the potential for contamination migration (including in soil, soil vapor and/or groundwater) within, from and onto the Property.
- The reconnaissance of accessible portions of the Property included observation of any readily visible suspect asbestos-containing materials (ACMs) and potential lead-based paint (LBP). However, no samples were collected or analyzed as part of reconnaissance and this reconnaissance provides neither definitive nor exhaustive information.
- A state database of county-level radon concentrations was used to determine typical indoor radon levels and compare them to United States Environmental Protection Agency (USEPA) guidelines.
- Historical land use maps for the Property and nearby sites were reviewed to evaluate historical land uses.
- The following federal regulatory databases were reviewed to determine the regulatory status of the Property and other properties within the ASTM-defined radii: the National Priority List (NPL); Superfund Enterprise Management System (SEMS), including Superfund Enterprise Management System Archive (SEMS-ARCHIVE); Comprehensive Environmental Response, Compensation, and Liability Information System-No Further Remedial Action Planned (CERCLIS-NFRAP); Corrective Actions Report (CORRACTS); Resource Conservation and Recovery Information System (RCRIS); and Emergency Response Notification System (ERNS). Federal ASTM supplemental records reviewed included: Toxic Chemical Release Inventory System (TRIS); Superfund Consent Decrees (CONSENT); Records of Decision (ROD); National Priority List Deletions (Delisted NPL); and United States Brownfields.
- The following state regulatory databases were reviewed to determine the regulatory status of the Property and other properties within predetermined radii: petroleum and hazardous material spills

(SPILLS); Leaking Underground Storage Tanks (LTANKs); Chemical Bulk Storage (CBS); Solid Waste Facilities (SWF); Petroleum Bulk Storage (PBS); State Inactive Hazardous Waste Disposal Sites (SHWS); Hazardous Substance Waste Disposal Site Inventory (HSWDS); Major Oil Storage Facilities (MOSF); Environmental Restoration Program (ERP); Voluntary Cleanup Program (VCP); and New York Brownfield Cleanup Program (BCP).

- Local agency reviews including online Buildings and Finance Departments records and Environmental Quality Review (CEQR) E Designation-sites were conducted for the Property only.
- Review of historic reports including non-ASTM scope items.

2.0 PHYSICAL SITE DESCRIPTION

Visual inspection of the Property was performed on May 4, 2021 by Ms. Elizabeth Baird of AKRF. Ms. Baird was not accompanied by a Client representative during the inspection. At the time of the inspection, the weather was partly cloudy and approximately 65ºF with generally good visibility. The majority of the parking spaces were occupied and surface conditions of the Property were not fully visible during inspection.

The Property was inspected for the presence of stained surfaces and soil, evidence of storage tanks, drums, leaking pipes, transformers, and any other evidence of hazardous material usage and storage on-site. Neighboring properties were also viewed, but only from public rights-of-way. Photographs documenting the inspection are included in Appendix A.

2.1 General Site Conditions

The Property consisted of an approximately 20,880 square foot municipal parking facility for short-term parking. The Property was generally bounded by commercial/retail units to the north, residential/commercial units to the south, residential units and 32nd Street to the east, and 31st Street/an elevated subway station to the west.

The parking facility was comprised of an at-grade asphalt paved parking lot with 60 parking spaces and two pay stations. The asphalt pavement was in poor condition with cracking, patches, and petroleum-like staining observed. Several pole lights, steel traffic bollards, and guard rails were observed on the Property. No other above-grade structures were observed on the Property.

Three apparent storm drains were observed and were presumably connected to the municipal sewer system. Utility manholes were observed along 31st Street and 32nd Street.

Three five-gallon containers of orphan waste were observed in the southeastern-most corner of the Property. Two of the containers were labeled as kerosene and lacquer; the remaining container was unmarked. One trash can, containing household waste, was located on the Property.

No pits, ponds, or lagoons exhibiting evidence (e.g., discolored water, distressed vegetation, obvious wastewater discharge) of holding liquids or sludge containing hazardous substances or petroleum products were observed on the Property. One groundwater monitoring well was observed in the eastern sidewalk along 31st Street, along the western Property boundary. A second monitoring well was observed in the sidewalk of the west-adjacent Property block.

2.2 Topography and Hydrogeology

Based on the U.S. Geological Survey, Central Park, New York 2013 Quadrangle map, the Property lies at approximately 49 feet above mean sea level, with the general surrounding area topography gently sloping down in a westerly direction towards the East River. The East River is located approximately one mile west of the Property.

Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Property can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Property. Groundwater in Queens is not used as a source of potable water.

2.3 Storage Tanks

2.3.1 Underground Storage Tanks (USTs)

During the Property inspection, no evidence, such as manways, vent pipes, or dispenser equipment, was observed that would indicate past or present USTs at the Property. NYC Department of Buildings (NYCDOB) records did not indicate any USTs on the Property.

Off-site USTs are discussed in Section 5.2.2.

2.3.2 Aboveground Storage Tanks (ASTs)

No evidence, such as tanks or vaults likely to contain tanks, vent pipes or fill caps, was observed during the reconnaissance to indicate that ASTs are or were present. NYCDOB records did not indicate any records of ASTs at the Property.

Off-site ASTs are discussed in Section 5.2.2.

2.4 Polychlorinated Biphenyls (PCBs)

Until 1979, polychlorinated biphenyls (PCBs), which provided beneficial insulating properties, were used in a variety of products, in particular electrical equipment such as transformers, capacitors, fluorescent light fixtures, and voltage regulators, but also in hydraulic fluids and some other products such as caulking.

No suspect PCB-containing equipment was identified, and no obvious leaks or odors were noted at the Property.

2.5 Lead-Based Paint (LBP)

Although use of lead-based paint (LBP) has diminished since the 1960s, LBP may still sometimes be used outdoors. Lead-based paint can present a hazard, particularly to children, especially when it is in poor condition.

Painted surfaces on the Property were observed to be in generally good to fair condition, with some damaged paint noted on the steel traffic bollards. Any renovation activities with the potential to disturb lead-based paint must be performed in accordance with the applicable Occupational Safety and Health Administration regulation (OSHA 29 CFR 1926.62—Lead Exposure in Construction).

2.6 Utilities

Consolidated Edison provided electricity to the Property and electricity and natural gas to the surrounding area. The Property was connected to the New York City municipal water and sewer systems.

2.7 Waste Management and Chemical Handling

General refuse generated at the Property was presumably removed by the NYC Department of Sanitation. No evidence of current on-site hazardous waste operations was observed during the site reconnaissance.

2.8 Radon

Radon is a colorless, odorless gas most commonly produced by the natural radioactive decay of certain rocks. According to a New York State Department of Health database, 563 radon tests were conducted in Queens in December 2020. The average basement radon level was found to be 1.22 picoCuries per liter (pCi/L), below the USEPA recommended action level of 4.0 pCi/.

3.0 ASBESTOS-CONTAINING MATERIAL (ACM)

Asbestos refers to a group of natural minerals that provide good fire resistance and insulation. Asbestos is also commonly found in vinyl flooring, plaster, drywall, joint compound, ceiling tiles, roofing materials, gaskets, mastics, caulks and other products. Materials containing more than one percent asbestos are considered asbestos-containing materials (ACM). ACM are classified as either friable (i.e., more readily release fibers, such as most spray-applied fireproofing) or non-friable (such as floor tiles).

Suspect ACM was not observed during the reconnaissance. However, this reconnaissance did not constitute and cannot substitute for an asbestos survey, which includes comprehensive inspection and material sampling with laboratory testing.

Regulatory requirements for ACM (or suspect ACM until proven not to be ACM) include maintaining the materials in good condition and, prior to any renovation or demolition, inspection/sampling by a NYC-certified asbestos investigator to determine whether the project will disturb ACM. Any ACM that would be disturbed by the renovation or demolition must be properly removed prior to such activity.

4.0 ADJACENT LAND USE

The Property was abutted to the north by commercial/retail units, followed by Broadway; to the west by 31st Street and an elevated subway station, followed by commercial/retail and residential units; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by retail and commercial units; and to the east by residential units and 32nd Street. The greater surrounding area was primarily commercial/retail, residential and transit uses.

5.0 PROPERTY HISTORY AND RECORDS REVIEW

5.1 Prior Ownership and Usage

5.1.1 Historical Land Use Maps

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Property. Specifically, Sanborn Fire Insurance Maps from 1898, 1915, 1936, 1948, 1950, 1967, 1977, 1979, 1981, 1985, 1986, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1999, 2001, 2002, 2003, 2004, 2005, and 2006. Copies of the maps are provided in Appendix B.

1898

Property:

The Property was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Property.

Surrounding Properties:

The surrounding properties were primarily vacant lots and some residential dwellings. The William H. Siebrecht Florist Greenhouses were identified north of Broadway between 30th and 31st Streets.

1915

Property:

The Property remained primarily vacant. The previously identified dwelling and shed were replaced with a new dwelling and shed located in the northwestern portion of the Property.

Surrounding Properties:

The surrounding areas were further developed as mostly residential with some commercial uses. A beer bottling and wagon shed was identified on the north-adjacent Property block. Retail stores and wagon sheds were identified on the northwest-adjacent Property block.

1936

Property:

The Property remained mostly unchanged from the 1915 map except for the addition of a one-car garage to the east of the previously identified dwelling.

Surrounding Properties:

The surrounding areas were further developed with residential apartment buildings and rowhouse dwellings as well as commercial uses. A two-story building with shops, a bowling alley, and offices was noted north-adjacent to the Property. The elevated Broadway Subway Station was identified running north-south along 31st Street. The previously identified beer bottling and wagon shed was noted as retail stores. The Broadway Theater Moving Picture Studio was identified north of Property at the intersection of Broadway and 32nd Street. A garage with a gasoline tank and auto repair shop with three adjacent gasoline tanks were noted northwest of the Property at the intersection of Broadway and 29th Street.

1948

Property:

The Property remained mostly unchanged from the 1936 map.

Surrounding Properties:

The surrounding areas continued to develop with more residential (i.e., apartment buildings and rowhouses) and commercial/retail uses. The previously identified William H. Siebrecht Florist Greenhouses were now noted as residential dwellings. The previously identified Broadway Theater Moving Picture Studio and the auto garage and repair shop with gasoline tanks remained unchanged from the 1936 map.

1950

Property:

The Property remained mostly unchanged from the 1948 map except for the configuration and number of the property lot lines, which was reduced to five.

Surrounding Properties:

The surrounding area remained mostly unchanged from the 1948 map. The previously identified auto repair shop and nearby gasoline tanks were no longer depicted northwest of the Property.

1967-1977

Property:

The Property remained unchanged from the 1950 map.

Surrounding Properties:

The surrounding area remained mostly unchanged from the 1950 map. A filling station was identified north-northeast of the Property on 31st Street. A commercial building was identified south-adjacent to the Property. A mechanic's shop and warehouse was identified southwest of the Property along 31st Street between Broadway and 34th Avenue. A dry cleaners was identified along Broadway between 32nd and 33rd Streets, northeast of the Property. The building previously identified as Broadway Theater Moving Picture Studio was no longer identified as such. The eastern-most portions of the 1967 and 1977 maps were indiscernible due to poor image quality.

1979-1986

Property:

The previously identified dwelling was no longer depicted on the Property. The previously identified one-car garage remained on the Property. The western portion of the Property was identified as parking.

Surrounding Properties:

The Property block and surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

1988-1989

Property:

The previously identified one-car garage was no longer identified on the map and the entirety of the Property was labeled as parking.

Surrounding Properties:

The Property block and surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

1990

Property:

The Property remained unchanged from the 1988-1989 maps.

Surrounding Properties:

The previously identified mechanic's shop was noted as a fitness center; the neighboring mechanic's warehouse remained unchanged. The surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

1991-2006

Property:

The Property remained unchanged from the 1990 map.

Surrounding Properties:

The Property block and surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

In summary, historical Sanborn maps indicated that the Property was developed as a residential dwelling from at least 1898 to 1979. The Property was developed in its current configuration as a parking facility by 1988.

Sanborn maps identified primarily residential and commercial uses adjacent to the Property and in the surrounding area. Some of the pertinent commercial listings between circa 1936 and 2006 included: a filling station located north-northeast of the Property; a garage and auto repair shop with gasoline tanks located northwest of the Property; a dry cleaners located northeast of the Property; and a machine shop and warehouse located southwest of the Property.

5.1.2 Property Tax Files and Zoning Records

Based on NYC Department of City Planning's Zoning Map information, the Property was zoned C1-2 (Commercial District Overlay) and R5 (Residential).

5.1.3 Recorded Land Title Records

Copies of title records were not provided to AKRF for review. A review of computerized New York City Automated City Register Information System (ACRIS) records, which included records of financial transactions involving the Property, identified no environmental liens for the Property.

5.1.4 Local Street Directories

A City Directory prepared by Environmental Data Resources, Inc. (EDR) was reviewed as part of this Phase I ESA. The City Directory consisted of the names of businesses located on-site and in adjacent properties, compiled from city and reverse telephone directories at approximately five-year intervals starting in 1920. A summary of the directory findings is below:

The Property was listed in the City Directory in 1934, 1945, 1967, 2000, and 2005; all occupants identified were residential occupants. No occupants indicating non-residential use were listed.

In the surrounding areas, the directories identified mainly residential uses, with some proximal commercial uses, including:

- TR Service Station at 31-70 31st Street (located north-northeast of the Property) in 1962, 1967, 1970, and 1983.
- Riteway/Bartley's Service Station at 32-02 30th Street (located southwest of the Property) in 1939 and 1962.
- Brighton Cleaners/City Cleaners at 31-84 33rd Road/31-85 33rd Street/33-14 Broadway (located northeast of the Property) in 1934, 1939, 1945, 1962, 1994, 2004, 2005, 2014, and 2017.
- Minerva Cleaners at 31-89 29th Street/29-09 Broadway (located northwest of the Property) in 1970, 1994, 2004, 2005, 2009, 2014, and 2017.
- Jeon's Cleaners/Renee French Cleaners at 30-08 Broadway (located north-northwest of the Property) in 1962, 1994, 2004, 2005, 2009, and 2017.
- United Cleaners at 30-02 and 30-06 Broadway (located north-northwest of the Property) in 1934.
- D&F Cleaners at 33-12 Broadway (located east of the Property) in 1934.
- World Cleaners at 32-08 Broadway (located east of the Property) in 2005 and 2009.
- Roosevelt Cleaners at 30-17 Broadway (located north of the Property) in 1962.
- M&M Auto Service at 31-73 31st Street (located northwest of the Property) in 1939.

Given their locations, the above-listed facilities have some potential to have affected the Property subsurface.

The City Directory search results are included in Appendix C.

5.2 Regulatory Review

EDR of Shelton, Connecticut, was contracted to obtain information regarding the regulatory status of the Property and the surrounding area. This information included records from databases maintained by the USEPA and New York State Department of Environmental Conservation (NYSDEC). AKRF reviewed these records to identify the use, generation, storage, treatment and/or disposal of hazardous material and chemicals, or releases of such materials which may impact the project site. All applicable regulatory databases meet ASTM guidelines requesting utilization of information within 90 days' receipt from the appropriate agency. Copies of the pertinent sections of the EDR report are included in Appendix D.

5.2.1 Federal

Federal ASTM standard records reviewed included: the National Priority List (NPL); Superfund Enterprise Management System (SEMS), including Superfund Enterprise Management System Archive (SEMS-ARCHIVE); Comprehensive Environmental Response, Compensation, and Liability Information System-No Further Remedial Action Planned (CERCLIS-NFRAP); Corrective Actions Report (CORRACTS); Resource Conservation and Recovery Information System (RCRIS); and Emergency Response Notification System (ERNS).

Federal ASTM supplemental records reviewed included: Toxic Chemical Release Inventory System (TRIS); Superfund Consent Decrees (CONSENT); Records of Decision (ROD); National Priority List Deletions (Delisted NPL); and United States Brownfields.

National Priority List (NPL)

The NPL is the USEPA's database of some of the most serious uncontrolled or abandoned hazardous waste sites identified for probable remedial action under the Superfund Program. These sites may constitute an immediate threat to human health and the environment. Due to the amount of public attention focused on NPL sites, they pose a significant risk of stigmatizing surrounding properties and potentially impacting property values.

The Property was not listed on the NPL database. No NPL sites were identified within a one-mile radius of the Property.

Superfund Enterprise Management System (SEMS), including Superfund Enterprise Management System Archive (SEMS-ARCHIVE)

The SEMS (formerly known as CERCLIS) list is a compilation of known and suspected uncontrolled or abandoned hazardous waste sites which are, or were, under investigation by USEPA but have not been elevated to the status of a Superfund (NPL) site. Former CERCLIS sites that have been granted the status of No Further Remedial Action Planned (NFRAP), currently known as Superfund Enterprise Management System Archive (SEMS-ARCHIVE) sites, are also included in this database.

The Property was not listed on the SEMS or SEMS-ARCHIVE databases. No SEMS or SEMS-ARCHIVE were identified within a ½-mile radius of the Property.

Corrective Actions Report (CORRACTS)

The CORRACTS database identifies hazardous waste handlers with RCRA corrective action activity.

The Property was not listed on the CORRACTS database. No CORRACTS sites were identified within a one-mile radius of the Property.

Resource Conservation and Recovery Information System (RCRIS)

This database lists sites that have filed notification forms regarding hazardous waste activity, including: treatment, storage and disposal facilities (TSDs); very small quantity generators (VSQG), small quantity generators (SQG), and large quantity generators (LQG); and transporters regulated under RCRA.

The Property was not listed on RCRIS databases. No TSD or LQG facilities were identified within a ½-mile radius of the Property.

One SQG and two VSQG facilities were identified within a ⅛-mile radius of the Property. Of these, the following facilities has some limited potential to have affected environmental conditions at the Property:

- Rite Aid Store No. 10569, located at 32-14 31st Street, approximately 100 feet west of the Property, was listed as a conditionally exempt small quantity generator of wastes associated with photograph development activities and pharmaceutical handling activities.
- The New York City Transit (NYCT) Elevated Subway Station, located at 31st Street and Broadway, approximately 140 feet north-northeast of the Property, was listed as a small quantity generator of lead in 2015.
- Brighton Cleaners, located at 33-14 Broadway, approximately 453 feet northeast of the Property, was listed as a conditionally exempt small quantity generator of spent halogenated solvents in 2006 and 2007 and as a small quantity generator in 1987.

Details of the listings are included in Appendix F.

Emergency Response Notification System (ERNS)

This federal database, compiled by the Emergency Response Notification System, records and stores information on certain reported releases of petroleum and other potentially hazardous substances.

No ERNS listings were identified at the Property.

Toxic Chemical Release Inventory System (TRIS)

The TRIS contains information reported by a variety of industries on their annual estimated releases of certain chemicals.

The Property was not identified on the TRIS database. No TRIS sites were identified within a ⅛-mile radius of the Property.

Superfund Consent Decrees (CONSENT)

Superfund consent decrees are major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. These decrees are periodically released by the United States District Courts after settlement by parties to litigation matters.

The Property was not listed on the CONSENT database. No CONSENT sites were identified within a one-mile radius of the Property.

Records of Decision (ROD)

ROD documents mandate permanent remedies at NPL sites, and contain technical and health information to aid in the cleanup.

The Property was not listed on the ROD database. No ROD sites were identified within a one-mile radius of the Property.

National Priority List Deletions (Delisted NPL)

This database described former NPL sites that are removed from the NPL list by the US EPA. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establish the criteria used by the EPA to delist sites where no further federal response is needed.

The Property was not listed on the delisted NPL database. No delisted NPL sites were identified within a one-mile radius of the Property.

US Brownfields

The US Brownfields program is for properties that report cleanups to the EPA and are served by Brownfields grant programs.

The Property was not listed on the US Brownfields database. No US Brownfields sites were identified within a ½-mile radius of the Property.

5.2.2 State

The state records reviewed included the listings of hazardous material spills (SPILLS); Leaking Underground Storage Tanks (LTANKs); Chemical Bulk Storage (CBS); Solid Waste Facilities (SWF); Petroleum Bulk Storage (PBS); State Inactive Hazardous Waste Disposal Sites (SHWS); Hazardous Substance Waste Disposal Site Inventory (HSWDS); Major Oil Storage Facilities (MOSF); Environmental Restoration Program (ERP); Voluntary Cleanup Program (VCP); and New York Brownfield Cleanup Program (BCP).

New York State Spills Information Database (NY Spills)/Leaking Underground Storage Tanks (LTANKs)

This database includes releases reported to the NYSDEC, including tank test failures (for USTs only) and tank failures.

The Property was not listed within the NY Spills and LTANKS listings. A total of 282 spills, which included 52 leaking tanks, were reporting on surrounding properties within a ½-mile radius. Based on their proximity (within approximately 400 feet), assumed hydraulic relationships, and/or listing details, the following listings have some limited potential to affect subsurface conditions at the Property:

- NYSDEC Spill No. 0512053 was reported at 32-16 33rd Street, approximately 214 feet east-northeast of the Property, and involved a leaking fuel oil AST (presumably with a capacity of 275 gallons) in a residential basement. According to the spill report, following a 230-gallon oil delivery, the entire contents of the tank were released to concrete and soil within the basement. Approximately 17 cubic yards of soil were excavated; however, residual contamination was documented via endpoint sampling. A passive venting system was installed at the property and the spill was closed in 2006.
- NYSDEC Spill Nos. 8903296, 9003215, and 0613804 were reported at 31-70 31st Street, approximately 446 feet north-northeast of the Property and were related to an auto service station with several USTs. According to the information provided in the spill listings, petroleum product was identified in an on-site groundwater monitoring well in 1990; no additional details regarding remediation was provided.

  The listing also reported that several USTs (quantity unknown) were removed and replaced at the site circa 1999, following a tank test failure. Information regarding the tank removals was not provided to NYSDEC and therefore, NYSDEC required further assessment of the site. A Phase II ESA was performed at the site in 2006; the assessment did not encounter petroleum-impacted soils or groundwater and NYSDEC subsequently issued a "No Further Action". In 2007, two 4,000-gallon USTs, six previously unidentified 550-gallon USTs, two pump islands, and associated piping were removed from the site. During tank removal activities,

impacted soil was encountered and approximately 270 tons of petroleum-contaminated soil were excavated from the site. No further investigation or remediation was required and NYSDEC closed the spill in 2007. According to the Petroleum Bulk Storage (PBS) listing, it was reported that the two 4,000-gallon tanks had been converted to non-regulated use. See the PBS Database summary below for additional details.

Based on their locations, assumed hydraulic relationships, and/or listing details, the remaining listings are not likely to have significantly affected subsurface conditions at the Property. Details for all listed NY Spills and LTANKS sites are included in Appendix D.

Chemical Bulk Storage (CBS) Database

The New York CBS is a list of facilities that store regulated non-petroleum substances in aboveground tanks with capacities greater than 185 gallons and/or in underground tanks of any size.

The Property was not listed on the CBS database. No CBS facilities were identified within a ⅛-mile radius of the Property.

Solid Waste Facilities/Landfill Sites (SWF/LF)

The SWF/LF database is a comprehensive listing of state permitted/recorded solid waste management facilities including certain landfills, incinerators, transfer stations, recycling centers, and other sites which manage solid waste.

The Property was not listed in the SWF/LF database. No SWF/LF facilities were identified with a ½-mile radius of the Property.

Petroleum Bulk Storage (PBS) Database

This database lists facilities that registered having either aboveground or underground petroleum tanks with total storage exceeding 1,100 gallons. Facilities with more than 400,000 gallons appear on the Major Oil Storage Facilities (MOSF) database (see below).

Thirty PBS facilities were identified within a ⅛-mile radius of the Property. Of these, the following facilities have some limited potential to have affected environmental conditions at the Property:

Table 1
Area Petroleum Bulk Storage Facility Data

Location	Capacity (gallons)	Product Stored	Status	Distance/Direction from the Property
34-04/08 Broadway	1 x 1,500 AST	No. 2 Fuel Oil	Closed - removed in 2012	140 feet east
30-18 Broadway	1 x 3,000 AST	No. 2 Fuel Oil	Active	147 feet north
31-01 Broadway	1 x 1,500 UST	No. 2 Fuel Oil	Closed - removed in 1990	184 feet north-northeast
30-02 Broadway	1 x 3,000 AST	No. 2 Fuel Oil	Active	197 feet north-northwest
32-12 Broadway	1 x 1,500 UST	No. 2 Fuel Oil	Closed - in place in 1991	197 feet east
31-11 Broadway	1 x 2,000 UST	No. 2 Fuel Oil	Active	200 feet northeast
32-15 30th Street	1 x 3,000 AST	No. 2 Fuel Oil	Active	238 feet northwest
31-77 32nd Street	1 x 5,000 AST	No. 2 Fuel Oil	Active	340 feet east-northeast
32-42 33rd Street	1 x 5,000 UST	No. 6 Fuel Oil	Active	352 feet south-southeast
31-70 31st Street	2 x 4,000 UST	Gasoline	Converted to Non-regulated Use (According to the LTANLKS/SPILLS listings, these tanks, along with six 550-gallon USTs were removed in 2007)	446 feet north-northeast

Based on listing details, distance from the Property and/or inferred groundwater flow direction, the remaining listings would not be expected to have significantly affected the Property.

Details of all PBS listings are included in Appendix D.

State Inactive Hazardous Waste Disposal Site Registry (SHWS)

This program, also known as State Superfund, lists information regarding a variety of sites likely requiring cleanup.

The Property was not listed on the SHWS database. Eleven SHWS sites were identified within a one-mile radius of the Property. Of these, the following listing has some limited potential to have affected environmental conditions at the Property:

- An auto repair facility, located at 34-14 31st Street, approximately 808 feet southwest of the Property, was listed in the database as a 4,000-square foot facility which had operated as an auto repair shop since at least 1936. Elevated concentrations of the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and metals (lead, mercury, and nickel) were detected in site soils. PCE and trichloroethene (TCE) were detected at elevated concentrations in sub-slab vapor samples. Groundwater was not encountered during the remedial investigation. Remediation at this site has been completed; no information regarding the nature and extent of the remediation was provided in the database listing.

Based on the distance from the Property and/or presumed hydraulic relationship, the other facilities are not anticipated to have affected subsurface conditions at the Property.

Details of the SHWS listing are included in Appendix D.

Hazardous Substance Waste Disposal Site Inventory (HSWDS)

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that USEPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites.

The Property was not listed on the HSWDS database. No HSWDS sites were identified within a ½-mile radius of the Property.

Major Oil Storage Facilities (MOSF) Database

These facilities have petroleum storage of 400,000 gallons or more.

The Property was not listed on the MOSF database. No MOSF facilities were reported within a ⅛-mile radius of the Property.

Environmental Restoration Program (ERP)

These sites (which are generally municipally-owned) are receiving New York State funding for site investigation and remediation. Some sites in this program have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

The Property was not listed on the ERP database. No ERP sites were identified within a ½-mile radius of the Property.

Voluntary Cleanup Program (VCP)

The VCP is a NYSDEC program for investigation and remediation of (generally) privately-owned sites. Some sites in this program have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

The Property was not listed on the VCP database. One VCP site, the Levco Metals Finishers site, was identified within a ½-mile radius of the Property. The Levco Metals Finishers site was located at 34-11 36th Street, approximately 2,000 feet south of the Property. Based on the distance from the Property and the presumed hydraulic relationship, this facility is not anticipated to have affected subsurface conditions at the Property.

Details of the VCP listing are included in Appendix D.

Brownfield Cleanup Program (BCP)

The BCP is a NYSDEC program and is the successor to the VCP. Some sites have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

The Property was not listed on the BCP database. One BCP site, Teitelbaum Dry Cleaning, Inc., was identified within a ½ -mile radius of the Property. The Teitelbaum Dry Cleaning site is located at 35-45 35th Street, approximately 2,000 feet south of the Property. Based on the distance from the Property and the presumed hydraulic relationship, this BCP site is not anticipated to have affected subsurface conditions at the Property.

Details of the BCP listing are included in Appendix D.

New York City E-Designation Site Listing

A New York City "E" designation for a property requires that the fee owner of the site conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYC Office of Environmental Remediation (OER) before the issuance of a building permit by the NYC Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements).

The Property was not listed with an E-designation in the database information.

EDR US Historic Auto Station Listings

The EDR US Historic Auto Station database was researched to identify listings for the Property and within a ⅛-mile radius of the Property. This database lists properties that might include gas/filling station establishments based on EDR's search of select national business directories.

The Property was not listed on the historic auto stations database. One EDR historic auto station was identified within a ⅛-mile radius:

- TR Service Station/Sunoco Service Station, located at 31-70 31st Street, approximately 446 feet north-northeast of the Property.

Please refer to the SPILLS/LTANKS listings for further details on this site.

Manufactured Gas Plant (MGP) Sites (Coal Gas)

The EDR manufactured gas plant (MGP) database was researched to identify listings for the Property and facilities within a one-mile radius of the Property.

The Property was not listed on the MGP database. No MGP sites were identified within a one-mile radius of the Property.

Registered Dry Cleaners/EDR US Hist Cleaners

The registered dry cleaners database was researched to identify listings within ¼-mile of the Site. As a supplement to the registered dry cleaners database, EDR's proprietary listing of potential drycleaner sites (listings based on the opinion of EDR) was also reviewed.

The Property was not listed on the database. Six registered dry cleaners and four US EDR Historic Cleaners sites were listed within a ¼-mile radius of the Property. Of these, the following facilities have very limited potential to have affected environmental conditions at the Property:

- City/Brighton Cleaners, Inc., located at 33-14 Broadway, approximately 453 feet east-southeast of the Property, was listed as a dry cleaner and a dry cleaning plant, except rugs in the EDR historical cleaners records between the years of 1991 and 2012.
- Minerva Tailors and Cleaners, located at 29-09 Broadway, approximately 490 feet north-northwest of the Property, was listed as a dry cleaning drop shop. This facility was also listed as a garment pressing and cleaners' agent between the years of 1987 and 1991 and a dry cleaning plant, except rugs between the years of 1992 and 2014 in the EDR historical cleaners records.
- Jeon's Cleaners, located at 30-08 Broadway, approximately 182 feet north-northwest of the Property, was listed as a registered dry cleaning drop shop. This facility, also identified as 3008 Incorporated ERS/Renee French Cleaners, was

listed as a garment pressing and cleaners' agent between the years of 1987 and 2003 and as a cleaning service between the years of 2004 and 2014 in the EDR historical cleaners records.

- Market Supervisory Services, located at 29-10 Broadway, approximately 437 feet northwest of the Property, was listed as a garment pressing and cleaners' agent in 1997 in the EDR historical cleaners records.

Based on their distance from the Property and/or presumed groundwater flow, the remaining facilities are not anticipated to have affected subsurface conditions at the Property.

Details of the registered dry cleaners/EDR US historic cleaners listing are included in Appendix D.

5.2.3 Local Agency File Review

Records available online from the New York City Buildings and Finance Departments were viewed for the Property. Since the local records typically address a multitude of issues, the review focused on items likely to relate to the potential presence of hazardous materials, e.g., petroleum tank installation applications and permits, and records indicating prior uses. Copies of pertinent information are included in Appendix E (Buildings and Finance Department Records).

NYC Buildings Department (DOB)

Electronic NYCDOB records for the Property were reviewed to determine whether there were any references to buildings, tanks or other structures, property usage or inspection reports that may have indicated the presence, past use, or release of hazardous substances, wastes or petroleum products within the Property. A Certificate of Occupancy dated 1957 identified the Property usage as a parking lot. No additional pertinent environmental records were identified in the NYCDOB electronic files.

Land Title Records and Tax Records

Copies of title records were not provided to AKRF for review. A review of computerized New York City ACRIS records, which included records of financial transactions involving the Property, identified no environmental liens or use restrictions for the Property. No deed information was provided in the ACRIS files. Pertinent Property information obtained from the ACRIS files is summarized below:

Year	Land Title Records Information for the Property
1983	Deed for Block 611, Lot 25 Grantor is: Louise Tedeschi (Executor); Grantee is: Frederick Tedeschi and James Tedeschi
1997	Court Order for Block 611, Lots 25, 29, 31, and 32 Grantor is: James Tedeschi and Frederick Tedeschi; Grantee is the City of New York

New York City Department of Health and Mental Hygiene (NYCDOHMH)

AKRF sent a freedom of information law (FOIL) request to the NYCDOHMH for pertinent environmental records on April 29, 2021. On April 29, 2021, NYCDOHMH issued a response e-mail acknowledging the request.

To date, no response has been provided. If issues of potential concern are noted upon receipt of the information, an addendum to this report will be created to discuss relevant findings.

New York City Department of Environmental Protection (NYCDEP)

AKRF sent a FOIL request to the NYCDEP on April 29, 2021. On April 29, 2021, NYCDEP issued a response e-mail acknowledging the request.

To date, no response has been provided. If issues of potential concern are noted upon receipt of the information, an addendum to this report will be created to discuss relevant findings.

5.2.4 Additional Environmental Record Sources

To enhance the search, ASTM requires that additional local records be reviewed (i.e., beyond those included as part of the standard database search or checked online) when, in judgment of the environmental professional, such records for the Property or any adjoining property would be reasonably ascertainable; useful, accurate and complete in light of the objective of the records review. These records may include:

- Local Brownfields Lists
- Local Lists of Landfill/solid waste disposal sites
- Local Lists of Hazardous Waste/Contaminated Sites
- Local Lists of Registered Tanks
- Local Land Records (for activity use limitations)
- Records of emergency release reports
- Records of contaminated public wells

Sources for these records include:

- Department of Health/Environmental Division
- Fire Department
- Building Permit/Inspection Department
- Local/Regional Pollution Control Agency
- Local/Regional Water Quality Agency
- Local Electric Utility (for PCB records)

On April 29, 2021, AKRF sent FOIL requests to the following agencies requesting information pertaining to environmental records for the Property;

- Fire Department of the City of New York (FDNY)
- NYSDEC Region 2
- New York State Department of Health (NYSDOH)

To date, no responses have been provided. If issues of potential concern are noted upon receipt of the information, an addendum to this report will be created to discuss relevant findings.

In addition, AKRF submitted a FOIL request to NYSDEC Region 2 regarding the former auto service station located at 31-70 31st Street, on the northwest-adjacent Property block. To date, no response has been provided. Additional information regarding this site is provided in Section 5.2.2.

In AKRF's judgment, no other local records meeting the ASTM criteria are pertinent for the Property.

6.0 USER-PROVIDED INFORMATION

In preparing this Phase I ESA, AKRF requested that the client provide any pertinent information regarding the Property, specifically:

- Whether any environmental liens or activity and land use limitations (AULs) are in place or filed or recorded against the Property?
- Whether they had any specialized knowledge or experience related to the Property or nearby properties (e.g., specialized knowledge of any chemicals used on-site)?
- Whether the (anticipated) purchase price reflects that the Property is or could be contaminated?
- Whether they were aware of commonly known or reasonably ascertainable information about environmental conditions of the Property?
- Whether they were aware of any obvious indicators of contamination at the Property?
- Whether they were aware of any pending, threatened, ongoing or past litigation/enforcement action/consent order/notice of violation related to hazardous substances or petroleum products?

Mr. Emanuel Kokinakis of Mega Development LLC completed a user questionnaire for the Property. Mr. Kokinakis was not aware/had no information on the status of any: environmental liens or activity use limitations on the Property; property value reduction due to environmental issues; any pending, threatened, ongoing or past litigation/enforcement action/consent order/notice of violation related to hazardous substances or petroleum products; or any obvious indicators of contamination on the Property. To the extent that pertinent additional information was provided, it has been summarized elsewhere in this report.

7.0 PREVIOUS STUDIES

No previous studies were provided for review.

8.0 VAPOR ENCROACHMENT SCREENING

A Tier 1 Vapor Encroachment Screening was conducted in accordance with ASTM Standard E2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The term "Vapor Encroachment Condition" means the presence or likely presence of vapors from chemicals of concern (COC) in the subsurface of a Property caused by the release of vapors on or near the Property. The object of the Tier 1 screening is to conduct a screen for vapor encroachment based on findings from the Phase I ESA to determine if a possible VEC exists at the Property.

Based on AKRF's review of historical and regulatory database records, the following potential VECs were identified based on the Tier 1 Vapor Encroachment Screening:

- One groundwater monitoring well was observed on 31st Street sidewalk west-adjacent of the Property.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry cleaning uses in the surrounding area.

9.0 LIMITATIONS AND DATA GAPS

This assessment met the requirements of the American Society for Testing and Materials (ASTM) as established by ASTM Standard E1527-13 at the time it was performed, with the following limitations:

- Results of this investigation are valid as of the dates on which the investigation was performed.
- During the site reconnaissance, the majority of the parking spaces were occupied and surface conditions of the asphalt parking lot were not fully visible during inspection.
- Interviews and user-provided information were limited to those discussed in Section 6.0. To the extent that interviews were not conducted with the list of interviewees cited in the ASTM Standard (past and present owners, operators, and occupants of the Property and local government officials), AKRF does not believe that this represents a significant data gap likely to result in additional or significantly changed recognized environmental conditions or conclusions.
- The Property area history was not conducted in five-year intervals. However, sufficient information about the history of the site and surrounding area could be obtained from the available historical Sanborn maps, and this data gap is not likely to alter the conclusions of this report.
- Agency file reviews for the Property and adjacent properties consisted of a review of standard databases and electronic records maintained by pertinent departments and agencies (summarized in Section 5.2), as well as FOIL requests submitted to NYSDEC, NYCDEP, NYSDOH, and NYCDOH. AKRF believes that this file review was sufficient in determining the potential for recognized environmental conditions or other environmental concerns at the Property and additional reviews beyond this are not warranted and would not likely change the conclusions of this assessment.

10.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. was retained by Mega Development LLC to prepare a Phase I ESA of 31-07 31st Street, located in Astoria, Queens (the "Property"). The Property was identified as Queens Tax Block 611, Lot 25. The Property was generally bounded by commercial units to the north, residential/institutional units to the south, commercial/residential units and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). The Property consisted of an existing 20,880 square-foot municipal parking facility.

The greater surrounding area was primarily residential and commercial/retail with some transit uses. The objective of this assessment was to identify any potential environmental concerns associated with the Property resulting from past or current usage of the Property or neighboring properties.

This Phase I Environmental Site Assessment was performed in conformance with ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice*. Any exceptions to, or deletions from, the Standard and/or data gaps are described in Section 9.0. The term "Recognized Environmental Condition" (REC) means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The Standard also includes definitions of Historic REC (HREC), Controlled REC (CREC), and *De Minimis* Condition. A *De Minimis* Condition is defined as an environmental concern that is not a threat to human health or the environment and would not be subject to enforcement action.

A Tier 1 Vapor Encroachment Screen was also conducted in accordance with ASTM Standard E2600-15, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. The term "Vapor Encroachment Condition" (VEC) means the presence or likely presence of vapors from chemicals of concern (COC) in the subsurface of a property caused by the release of vapors on or near the property.

A summary of the assessment findings is presented below:

Recognized Environmental Conditions (RECs)/Vapor Encroachment Conditions (VECs)

- One groundwater monitoring well was observed on 31st Street sidewalk west-adjacent of the Property.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry cleaning uses in the surrounding area.

Business Environmental Risks (including items outside the scope of ASTM E1527-13 such as asbestos containing material [ACM], lead-based paint [LBP] and/or polychlorinated biphenyls [PCBs] in building materials or fill/debris)

- Buried demolition debris from former on-site structures could contain ACM, LBP, PCBs and/or underground storage tanks.

De Minimus

- Three five-gallon containers of orphan waste were located on the southeastern-most corner of the Property. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked. These containers should be removed from the Property and properly disposed of in accordance with federal, state, and local requirements.

Recommendations

- A subsurface (Phase II) investigation should be conducted at the Property to investigate the identified RECs/VECs.
- During any future subsurface disturbance, excavated soil should be handled and disposed of in accordance with all applicable regulatory requirements, with testing as required. Any evidence of a petroleum spill must be reported to the NYSDEC and addressed in accordance with applicable requirements. If any tanks are encountered, they should be properly assessed, closed, and removed in accordance with federal, state, and local regulations. Transportation of material leaving the Property for off-site disposal should be in accordance with federal, state, and local requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.
- If dewatering is required during future construction activities, water must be discharged in accordance with the New York City Department of Environmental Protection (NYCDEP) requirements.
- Any activities with the potential to disturb LBP must be performed in accordance with applicable requirements (including federal Occupational Safety and Health Administration regulation 29 CFR 1926.62 - Lead Exposure in Construction) and NYC Local Laws regarding tenant notification, contractor licensing, abatement procedures, etc. Additional requirements, even if no disturbance is planned (e.g., tenant notification, inspections, contractor licensing, and abatement) apply to occupied residential buildings.
- Unless there is labeling or test data that indicates that fluorescent lights and other electrical equipment are not mercury- and/or PCB-containing, if disposal is required, it should be performed in accordance with applicable federal, state, and local regulations and guidelines.
- Any suspect ACM-containing material and/or LBP encountered during excavation should be properly characterized, managed and disposed of in accordance with applicable regulations.

11.0 SIGNATURE PAGE

I declare that, to the best of our professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property for which the assessment was performed. I have performed all the appropriate inquiries in conformance with standards and practices set forth in 40 CFR Part 312.



Deborah Shapiro, QEP
Senior Vice President

12.0 QUALIFICATIONS

The purpose of this assessment was to convey a professional opinion about the potential presence or absence of contamination, or possible sources of contamination on the Property, and to identify existing and/or potential environmental issues associated with the Property including *Recognized Environmental Conditions* as defined in ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice.*

The assessment was performed in accordance with customary principles and practices in the environmental consulting industry, and in accordance with the above-referenced ASTM Standard, except as noted otherwise in Section 8.0. It should only be used as a guide in determining the possible presence or absence of hazardous materials on the Property at the time of the reconnaissance, as it is based upon the review of readily available records relating to both the Property and to the surrounding area, as well as a visual reconnaissance of current conditions.

This Phase I Assessment is not, and should not be construed as, a guarantee, warranty, or certification of the presence or absence of hazardous substances, which can be made only with testing, and contains no formal plans or recommendations to rectify or remediate the presence of any hazardous substances which may be subject to regulatory approval. This report is not a regulatory compliance audit.

This report is based on services performed by AKRF, Inc. professional staff and observation of the Property and its surroundings. We represent that observations made in this assessment are accurate to the best of our knowledge, and that no findings or observations concerning the potential presence of hazardous substances have been withheld or amended. The research and reconnaissance have been carried to a level that meets accepted industry and professional standards. Nevertheless, AKRF and the undersigned shall have no liability or obligation to any party other than the Mega Development LLC and their successors or assignees, and AKRF's obligations and liabilities to the above, their successors or assignees is limited to fraudulent statements made, or grossly negligent or willful acts or omissions.

13.0 REFERENCES

1. Environmental Data Resources, Inc., 31-07 31st Street, Regulatory Radius Map™ Report with GeoCheck®, April 2021.
2. *U.S. Geological Survey – Central Park, New York 2013 Quadrangle*, 7.5 minute Series (Topographic), Scale 1:24,000, 2013.
3. New York State Department of Health: Office of Public Health - Environmental Radiation Section, Basement Radon Screening Data, December 2020.
4. Historical Sanborn maps dated 1898, 1915, 1936, 1948, 1950, 1967, 1977, 1979, 1981, 1985, 1986, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1999, 2001, 2002, 2003, 2004, 2005, and 2006.
5. Environmental Data Resources, 31-07 31st Street City Directory Abstract, April 2021.
6. New York City Department of Buildings, Building Information Search Online (http://a810-bisweb.nyc.gov/bisweb).

IKOS Senior Living
31-07 31st Street
ASTORIA, NEW YORK

Subsurface (Phase II) Investigation Report

AKRF Project Number: 210124

CEQR Number: 22HPD043Q

Prepared for:

Mega Development LLC
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JANUARY 2024

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1.0 INTRODUCTION

AKRF, Inc. (AKRF) performed a Subsurface (Phase II) Investigation at the property located at 31-07 31st Street, located in Astoria, Queens (the "Site"). The Site is identified as Block 611, Lot 25 on the New York City Tax map. The Site consists of an approximately 20,880 square-foot municipal parking lot and is generally bounded by commercial units to the north, residential and institutional uses to the south, commercial and residential uses and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). A Site location map is provided as Figure 1, and a Site plan with sample locations is provided as Figure 2.

The Phase II investigation described below is intended to ascertain whether past uses on or near the Site have adversely affected the Site subsurface prior to redevelopment. The scope of work is based on the findings of a Phase I Environmental Site Assessment (ESA) of the Site, prepared by AKRF in June 2021, which is described in Section 3.0 below, as well as proposed redevelopment plans for the Site.

This investigation was conducted in accordance with a Subsurface (Phase II) Investigation Work Plan and Health and Safety Plan (AKRF, June 2022) approved by the New York City Department of Environmental Protection (NYCDEP) in a letter dated June 16, 2022. Any deviations from the Work Plan are detailed in Section 4.0.

Field activities were performed on October 3 through 5, 2022, and consisted of a geophysical survey, and the installation of seven soil borings, four temporary wells, and five soil vapor probes, with the collection of 14 soil samples, four groundwater samples, and five soil vapor samples for laboratory analysis. This report describes the methods and results of the investigation conducted by AKRF. The locations of the soil borings, temporary groundwater monitoring wells, and temporary soil vapor points are shown on Figure 2.

2.0 SITE DESCRIPTION

At the time of the Phase II Investigation, the Site consisted of a parking lot with no structures. The Site is generally bounded by commercial uses to the north, residential and institutional uses to the south, commercial and residential uses and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1).

Based on the U.S. Geological Survey, Central Park, New York 2013 Quadrangle map, the Site is approximately 49 feet above mean sea level, with the general surrounding area topography gently sloping down in a westerly direction towards the East River. The East River is located approximately one mile west of the Site.

Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in Queens is not used as a source of potable water.

During this Phase II Investigation, fill material (consisting of sand and gravel, with varying amounts of asphalt and brick) was encountered at depths ranging from approximately just below surface grade down to 5 to 14 feet below grade. The fill material was underlain by sand with trace amounts of gravel. Groundwater was encountered between 31 and 34 feet below grade in all seven soil borings.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Phase I Environmental Site Assessment (ESA) – 31-07 31st Street, Astoria, NY, AKRF Inc., June 2021

AKRF conducted a Phase I ESA of the Site in June 2021 in accordance with ASTM E1527-13. At the time of the ESA, the Site consisted of the existing municipal parking facility. The Phase I ESA identified the following Recognized Environmental Conditions (RECs) in connection with the Site:

- One groundwater monitoring well was observed on the 31st Street sidewalk, west-adjacent of the Site.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry-cleaning uses in the surrounding area.

AKRF identified the following Business Environmental Risks (BERs) outside the scope of ASTM E1527-13:

- Potential fill materials and/or demolition debris beneath the Site could contain asbestos-containing materials (ACM), lead-based paint (LBP), and/or polychlorinated biphenyls (PCBs) related to former structures.

Based on the RECs identified, AKRF recommended a Subsurface (Phase II) Investigation be conducted at the Site.

4.0 FIELD ACTIVITIES

4.1 Geophysical Investigation

On October 3, 2022, a geophysical survey was conducted by Enviroprobe Service, Inc. (Enviroprobe) of Mt. Laurel, New Jersey across accessible areas of the Site, to clear the proposed soil boring locations for subsurface utilities and/or structures, and to search for potential USTs. Portions of the Site covered by parked vehicles were inaccessible and not surveyed by Enviroprobe. The geophysical survey included electromagnetic (EM), radio-detection (RD), and ground penetrating radar (GPR) methods. During the geophysical survey, underground electric and storm drainage infrastructure was located to the north and along the eastern and western boundaries. An unknown utility was encountered immediately south of the existing storm drainage infrastructure along the northern portion of the Site. The geophysical investigation report is attached as Appendix A. Photographs of the Phase II activities are provided in Appendix B.

In addition to the geophysical survey, AARCO Environmental Services (AARCO), the drilling contractor, notified Dig Safely New York at least 3 days prior to the start of the intrusive investigation work.

4.2 Soil Sampling and Analysis

Seven soil borings (SB-01 through SB-07) were advanced at the Site on October 3 through 5, 2022 by AARCO. Soil borings were advanced using a track-mounted Geoprobe® direct push probe (DPP). Several borings were relocated within approximately 5 feet of the proposed locations proposed in the Work Plan due to access considerations, utility markouts, and/or geophysical survey findings.

All soil borings were advanced approximately 5 feet into the water table to approximately 40 feet below grade, except for SB-04, which was advanced to 45 feet below grade. Soil cores were collected using 5-foot long, 2-inch diameter macrocore piston rod samplers fitted with dedicated acetate liners. Each macrocore sample was split lengthwise and all samples were logged by AKRF field personnel. Logging consisted of: describing the soil according to the modified Burmister Classification System; describing any evidence of contamination (e.g., staining, sheens, odors); and field-screening the soil for organic vapors using a photoionization detector (PID). The PID was calibrated at the start of the work day, prior to on-site use, using 100 parts per million (ppm) isobutylene gas in accordance with the manufacturer's instructions. Soil boring locations are shown on Figure 2 and soil boring logs are provided in Appendix C.

In accordance with the Work Plan, discrete soil samples were collected from the 0-2 foot interval of each boring, and the interval with the greatest contamination. In the absence of contamination, the sample was collected from the 2-foot interval immediately above the groundwater interface. No staining or sheen was detected in any of the soil borings. Elevated PID readings above background levels were not detected in any of the borings.

Soil samples were placed in laboratory-supplied containers within a chilled cooler in accordance with U.S. Environmental Protection Agency (EPA) protocols and transported via courier with appropriate chain of custody documentation to Eurofins TestAmerica, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory, in Edison, New Jersey. The samples were analyzed for:

- VOCs by EPA Method 8260;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082;

- Pesticides by EPA Method 8081; and
- Target Analyte List (TAL) Metals plus Hexavalent Chromium by EPA 6000/7000 series.

4.3 Groundwater Sampling and Analysis

Between October 3 and 5, 2022, four 1-inch diameter temporary groundwater monitoring wells, designated as TW-01 through TW-04, were installed in borings SB-01 through SB-04, respectively, to facilitate the collection of groundwater samples for laboratory analysis. Groundwater monitoring wells TW-01, TW-02, and TW-03 were installed to approximately 40 feet below grade and monitoring well TW-04 was installed to 45 feet below grade.

The wells were constructed of 1-inch diameter Schedule 40, threaded, flush-jointed polyvinyl chloride (PVC) materials with a 10-foot screen installed across the water table. The wells were developed following installation by purging approximately three well volumes. Prior to sampling, the depth to groundwater and the total well depth were measured using a multi-parameter interface probe attached to a measuring tape accurate to 0.01 feet. Depth to groundwater ranged from 30.31 to 36.61 feet below grade across the Site. No evidence of floating petroleum (separate phase product), sheen, or odors was detected in the purge water at either location, and purge water was discarded back into the boring following sampling activities. Temporary well locations are shown on Figure 2.

Groundwater samples slated for analysis were placed in laboratory-supplied containers and a chilled cooler in accordance with EPA protocols and were analyzed by Eurofins TestAmerica. The groundwater samples were analyzed for:

- VOCs by EPA Method 8260;
- SVOCs by EPA Method 8270;
- PCBs by EPA Method 8082;
- Pesticides by EPA Method 8081; and
- TAL Metals (total and dissolved) by EPA 6000/7000 series. Groundwater samples were filtered in the field for the dissolved metals analysis.

4.4 Soil Vapor Sampling and Analysis

Five soil vapor probes (SV-01 through SV-05) were installed using a Geoprobe® DPP drill rig by advancing an expendable drive point to approximately 14 feet below grade, approximately 2 feet below the proposed building foundation footprint. A 6-inch long, 0.5-inch diameter stainless steel soil vapor screen implant with connected Teflon tubing extending above grade was threaded into the drive point. The probe was then retracted approximately six inches to create a void. No. 2 Morie sand was used to fill the annular space around the vapor point and then, hydrated bentonite was used to fill the void around the tubing to grade. The soil vapor sample locations are shown on Figure 2.

The soil vapor probes were sampled in accordance with the NYSDOH October 2006 *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. Prior to sampling, each probe was purged of approximately three sampler volumes using a Gilian® GilAir™ Plus personal air pump. During purging, an inverted bucket was placed over the probe and helium was introduced through a small hole in the bucket to saturate the atmosphere around the sample port. The purged vapors were collected into a Tedlar® bag and a Dielectric Technologies Model MGD-2002 portable helium detector was used to check for short-circuiting by ambient air, i.e. to verify the adequacy of the bentonite seal. Helium concentrations of less than the NYSDOH guideline of 10 percent were

considered sufficient. Purged vapors were also field-screened for VOCs using a PID calibrated with 100 ppm isobutylene gas. Soil vapor sampling logs are provided in Appendix C.

PID readings were not detected in the purged vapor at all five vapor points. After purging, the probes were connected via tubing to laboratory-supplied, batch-certified clean six-liter SUMMA canisters equipped with two-hour flow regulators. Vacuum readings were collected at the start, middle, and end of sampling. The soil vapor samples were transported via courier with chain of custody documentation to Eurofins TestAmerica for analysis of VOCs by EPA Method TO-15. Upon completion, the soil vapor probes were removed, the holes backfilled, and the ground surface restored to its original condition.

5.0 INVESTIGATION RESULTS

5.1 Field Observations

Soil Sampling

Soil borings were advanced to a maximum depth of approximately 45 feet below grade during this investigation. Fill material (consisting of sand and gravel, with varying amounts of asphalt and brick) was encountered at depths ranging from approximately just below surface grade down to 5 to 14 feet below grade. The fill material was underlain by sand with trace amounts of gravel. Groundwater was encountered between 31 and 34 feet below grade in all seven soil borings.

No evidence of contamination, i.e., PID readings, staining, or odors were observed in any of the seven soil borings. Soil descriptions, observations, and PID readings are detailed in the soil boring logs provided in Appendix C.

Groundwater Sampling

Groundwater, as measured from temporary well points, was encountered between 30.31 and 36.61 feet below grade. No evidence of contamination (i.e., sheen or floating product) was noted in the groundwater samples.

Soil Vapor Sampling

No helium was detected during purging, verifying an adequate bentonite seal for each soil vapor point. PID readings were not detected in the purged vapor prior to sampling. The field logs detailing the soil vapor purging and sampling are included in Appendix C.

5.2 Soil Analytical Results

A total of 14 soil samples were submitted to Eurofins TestAmerica for analysis of VOCs, SVOCs, PCBs, pesticides, TAL metals and hexavalent chromium. Laboratory analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) Soil Cleanup Objectives for Unrestricted Use and Restricted-Residential Use (UUSCOs and RRSCOs, respectively) presented in Sections 6.8(b) of 6 NYCRR Part 375. Soil analytical results are summarized in Tables 1 through 5. The complete laboratory analytical report is provided as Appendix D. The analytical results from the soil sampling are discussed below.

Volatile Organic Compounds (VOCs)

Up to three VOCs [1,2,4-Trimethylbenzene, acetone, and tetrachloroethene (PCE)] were detected in up to 10 of the 14 soil samples with sample concentrations ranging from 0.00024 milligrams per kilogram (mg/kg) to 0.16 mg/kg. Several of the reported concentrations were marked with a "J" qualifier, indicating estimated concentrations. Acetone was detected slightly above the UUSCO of 0.05 mg/kg in two samples with a maximum concentration of 0.16 mg/kg. No VOCs were detected above the RRSCOs.

Analytical results for VOCs in soil are summarized in Table 1.

Semi-volatile Organic Compounds (SVOCs)

Twenty-three SVOCs were detected in the soil samples. Seven SVOCs were detected at concentrations above the UUSCOs and/or RRSCOs, as presented below:

SVOCs in Soil above UUSCOs and RRSCOs

Boring ID Depth (feet bg) Units = mg/kg	UUSCO	RRSCO	SB-01 0-2	SB-05 0-2	SB-05 29-31
Benzo(a)Anthracene	**1**	**1**	**6.5**	**25**	NE
Benzo(a)Pyrene	**1**	**1**	**5.3**	**23**	NE
Benzo(b)Fluoranthene	**1**	**1**	**7.1**	**29**	NE
Benzo(k)Fluoranthene	**0.8**	**3.9**	**2.3**	**7.6**	NE
Chrysene	**1**	**3.9**	**6**	**23**	NE
Dibenz(a,h)Anthracene	**0.33**	**0.33**	**0.95**	**2.7**	NE
Indeno(1,2,3-c,d)Pyrene	**0.5**	**0.5**	**4.2**	**17**	**1.2**

Bold = Detection above UUSCO
Bold and highlighted = Detection above RRSCO
mg/kg = milligrams per kilogram
bg = below grade
NE = No detection above UUSCO or RRSCO

The SVOCs detected above the SCOs consisted of polycyclic aromatic hydrocarbons (PAHs), a class of compounds commonly found in ash, asphalt, and petroleum products. Based on the field observations, the PAHs are most likely attributable to the fill material encountered in the soil borings at the corresponding depths, as noted on the boring log (Appendix C). Analytical results for SVOCs in soil are summarized in Table 2.

Metals

Twenty-three of the 24 metals analyzed for were detected in the soil samples. Hexavalent chromium was not detected above laboratory reporting limits. Four metals (copper, lead, mercury, and zinc) were detected at concentrations exceeding their UUSCOs, but not their RRSCOs, in four out of the 14 samples, as presented below.

Metals in Soil above UUSCOs

Boring ID Depth (feet bg) Units = mg/kg	UUSCO	RRSCO	SB-03 0-2	SB-04 0-2	SB-05 0-2	SB-07 0-2
Copper	**50**	**270**	NE	NE	**63.1**	NE
Lead	**63**	**400**	**81.7**	**80**	**283**	**131**
Mercury	**0.18**	**0.81**	NE	**0.59**	NE	NE
Zinc	**109**	**10,000**	NE	NE	**149**	NE

Bold = Detection above UUSCO
mg/kg = milligrams per kilogram
bg = below grade
NE = No detection above UUSCO or RRSCO

Based on the field observations and the Site history, these findings are most likely attributable to the fill material observed in the borings at corresponding depths, and not to a release or other source area. Analytical results for metals in soil are summarized in Table 3.

Polychlorinated Biphenyls (PCBs) and Pesticides

The PCB Aroclor 1262 was detected at a concentration of 0.063 mg/kg, below its UUSCO of 0.1 mg/kg and RRSCO of 1 mg/kg, in sample SB-02_0-2_20221003. PCBs were not detected above the UUSCO or RRSCO in any of the 14 soil samples.

Four pesticides (cis-chlordane, dieldrin, and P,P'-DDT) were detected in up to three of the 14 soil samples collected. P,P'-DDT was detected at a maximum concentration of 0.0063 mg/kg in sample SB-05_0-2_20221004, above its UUSCO of 0.0033 mg/kg. No other pesticides were detected at concentrations above the UUSCOs. Several of the reported concentrations were marked with a "J" qualifier, indicating estimated concentrations.

Analytical results for PCBs and pesticides in soil are summarized in Tables 4 and 5, respectively.

The detections of SVOCs, metals, PCBs, and pesticides are likely attributable to fill material observed in the soil borings or historical Site uses, and do not appear to indicate a significant release or source area. PCE was detected at low levels in shallow soil samples, indicating potential source material, which has migrated to the groundwater table as evidenced by the groundwater results for VOCs.

5.3 Groundwater Analytical Results

Groundwater analytical results were compared to the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs) as presented in the NYSDEC Division of Water TOGS 1.1.1. The groundwater analytical results are summarized in Tables 6 through 11. The complete laboratory analytical report is provided as Appendix D. The analytical results from the groundwater sampling are discussed below:

VOCs

Chlorinated solvent-related VOCs were detected above AWQSGVs in four groundwater samples, as presented below:

VOCs in Groundwater above Class GA AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01	TW-02	TW-03	TW-04
Chloroform	**7**	NE	NE	NE	**9.2**
Cis-1,2-Dichloroethylene	**5**	**14**	**6.7**	NE	NE
Tetrachloroethylene (PCE)	**5**	**100**	**19**	**100**	**330**

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
NE = No detection above the Class GA AWQSGV

The elevated concentrations of chlorinated solvents in groundwater indicate the possible presence of a release. As the current and prior usage of the Site include parking and residential, the source of the chlorinated solvent detections is unknown at this time. The complete analytical results for VOCs in groundwater are summarized in Table 6.

SVOCs

SVOCs were detected above the AWQSGVs in the sample collected from TW-01, as presented below:

SVOCs in Groundwater above Class GA AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01
Benzo(a)Anthracene	**0.002**	**2.1**
Benzo(a)Pyrene	**ND**	**1.6**
Benzo(b)Fluoranthene	**0.002**	**2.2**
Bis(2-Ethylhexyl) Phthalate	**5**	**6.2**
Chrysene	**0.002**	**2**
Indeno(1,2,3-c,d)Pyrene	**0.002**	**1.6 J**

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
J = estimated concentration
ND = Non-detect

No other SVOCs were detected above the AWQSGVs in the groundwater samples. The SVOC detected are likely attributable to fill material entrained in the water sample. Analytical results for SVOCs in groundwater are summarized in Table 7.

The complete analytical results for SVOCs in groundwater are summarized in Table 7.

Metals (total and dissolved)

In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for 14 metals, whereas in the filtered (dissolved) samples exceedances were limited to iron, magnesium, manganese, and sodium, as presented below:

Total Metals in Groundwater Above AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01	TW-02	TW-03	TW-04
Arsenic	**25**	**63.9**	NE	NE	NE
Barium	**1,000**	**3,540**	NE	NE	NE
Beryllium	**3**	**14.2**	NE	NE	NE
Chromium, Total	**50**	**3,390**	NE	NE	NE
Copper	**200**	**1,340**	NE	NE	NE
Iron	**300**	**971,000**	NE	**1,660**	**4,430**
Lead	**25**	**857**	NE	NE	NE
Magnesium	**35,000**	**355,000**	NE	**47,500**	NE
Manganese	**300**	**24,600**	**439**	NE	**1,090**
Mercury	**0.7**	**1.7**	NE	NE	NE
Nickel	**100**	**922**	NE	NE	NE
Sodium	**20,000**	**74,600**	**140,000**	**128,000**	**109,000**
Thallium	**0.5**	**5.1**	NE	NE	NE
Zinc	**2,000**	**2,640**	NE	NE	NE

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
NE = No detection above the Class GA AWQSGV

Dissolved Metals in Groundwater Above AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01	TW-02	TW-03	TW-04
Iron	**300**	NE	NE	**492**	**1,630**
Magnesium	**35,000**	NE	NE	**45,900**	NE
Manganese	**300**	NE	**450**	NE	**1,020**
Sodium	**20,000**	**35,300**	**141,000**	**127,000**	**107,000**

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
NE = No detection above the Class GA AWQSGV

The discrepancy between total and dissolved analysis indicates, as is typical, that the unfiltered samples included entrained particulate material. The exceedances in the filtered samples were likely indicative of natural conditions (e.g., sodium and manganese) and urban background conditions (e.g., heavy metals). Analytical results for metals in groundwater are summarized in Tables 8 and 9.

PCBs and Pesticides

No PCBs or pesticides were detected above laboratory reporting limits in the groundwater samples. The complete analytical results for PCBs and pesticides in groundwater are summarized in Tables 10 and 11, respectively.

The detected metal concentrations in the groundwater samples were likely attributable to regional groundwater contamination and particulate material entrained in the samples. The concentrations of chlorinated solvents above the AWQSGVs indicate the possible presence of a release. As the current and prior usage of the Site include parking and residential, the source of the chlorinated solvent detections is unknown at this time. PAH detections in groundwater are likely attributable to particulates entrained in the water samples, as opposed to an on-site source of SVOC contamination.

5.4 Soil Vapor Analytical Results

The soil vapor sample results indicated 38 of the 71 VOCs analyzed utilizing EPA Method TO-15 were detected in one or more samples. Although there are currently no regulatory or published guidance values for VOCs in soil vapor, soil vapor data was used to assess the potential for exposure to receptors and to help define the nature and extent of contamination at the Site. The analytical results for VOCs in soil vapor are summarized in Table 9. The complete laboratory analytical report is provided in Appendix D.

Solvent-related VOCs [including carbon 1,1,1-trichloroethane, carbon tetrachloride, cis-1,2-dichloroethylene, methylene, PCE, and trichloroethylene (TCE)] were detected at individual concentrations up to 1,900 micrograms per cubic meter (µg/m^3) from a diluted sample (PCE in sample SV-04_20221003). Petroleum-related VOCs benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) were detected in up to all five soil vapor samples at concentrations up to 29 µg/m^3 (toluene in SV-04_20221003).

The elevated concentrations of chlorinated solvents are likely attributable to off-gassing from the elevated solvent concentrations in groundwater or the detections in soil.

6.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. (AKRF) performed a Subsurface (Phase II) Investigation at the property located at 31-07 31st Street, located in Astoria, Queens (the "Site"). The Site is identified as Block 611, Lot 25 on the New York City Tax map. The Site consists of an approximately 20,880 square-foot municipal parking lot and is generally bounded by commercial units to the north, residential and institutional uses to the south, commercial and residential uses and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1).

The Phase II investigation is intended to ascertain whether past uses on or near the Site have adversely affected the Site subsurface prior to redevelopment. The scope of work is based on the findings of a Phase I Environmental Site Assessment (ESA) of the Site, prepared by AKRF in June 2021, which is described in Section 3.0 below, as well as proposed redevelopment plans for the Site.

This investigation was conducted in accordance with a Subsurface (Phase II) Investigation Work Plan and Health and Safety Plan (AKRF, June 2022) approved by the New York City Department of Environmental Protection (NYCDEP) in a letter dated June 16, 2022. Any deviations from the Work Plan are detailed in Section 4.0.

This investigation was conducted in accordance with a Subsurface (Phase II) Investigation Work Plan and Health and Safety Plan (AKRF, June 2022). Field activities were conducted on October 3 through 5, 2022 and consisted of the installation of seven soil borings, four temporary wells and five soil vapor probes, with the collection of 14 soil samples, four groundwater samples and five soil vapor samples for laboratory analysis. This report describes the methods and results of the investigation conducted by AKRF. The locations of the soil borings, temporary groundwater monitoring wells, and temporary soil vapor points are shown on Figure 2.

During this Phase II Investigation, fill material (consisting of sand and gravel, with varying amounts of asphalt and brick) was encountered at depths ranging from approximately just below surface grade down to 5 to 14 feet below grade. The fill material was underlain by sand with trace amounts of gravel. Groundwater was encountered between 31 and 34 feet below grade in all seven soil borings.

Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in this portion of Queens is not used as a source of potable water.

Soil sample analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs). Groundwater sample analytical results were compared to NYSDEC TOGS (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs). It should be noted that the Class GA AWQSGVs were developed assuming use of groundwater as a drinking source, a scenario that does not and will not occur at the Site. There are currently no regulatory or published guidance values for volatile organic compounds (VOCs) in soil vapor.

A summary of the analytical results is as follows:

- Fourteen discrete soil samples were collected from the seven soil borings (two samples collected per boring) advanced across the Site and analyzed for VOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and metals. Analytical results for the soil samples identified one VOC (acetone) in two samples above UUSCOs. No VOCs exceeded the RRSCOs. Up

to seven SVOCs were detected above the UUSCOs and/or RRSCOs. Four metals (copper, lead, mercury, and zinc) were detected in up to four samples above their UUSCOs, but below the RRSCOs. The pesticide P,P'-DDT was detected in one sample above its UUSCO.

- Four groundwater samples were collected from temporary wells TW-01 through TW-04 (installed in borings SB-01 through SB-04) and analyzed for VOCs, SVOCs, PCBs, pesticides, and metals (total and dissolved). Three VOCs [tetrachloroethylene (PCE), cis-1,2-dichloroethene, and chloroform] were detected in at least one of the four samples above their AWQSGVs. Six SVOCs were detected in sample TW-01_20221005 at concentrations above the AWQSGVs. In the unfiltered (total) metals analysis, up to 14 metals were detected at concentrations above the AWQSGVs. In the filtered (dissolved) metals analysis, four metals were detected at concentrations above the AWQSGVs.
- Several VOCs [including PCE, trichloroethylene (TCE), and cis-1,2-dichloroethene] were detected at elevated concentrations in the five soil vapor samples. Concentrations were detected up to 1,900 micrograms per cubic meter ($\mu g/m^3$) of PCE.

6.1 Conclusions

Based on the findings of the Phase II investigation, AKRF concludes the following:

- The SVOCs, PCBs, pesticides, and metals detected above the SCOs in soil are most likely attributable to the fill material encountered in the soil borings at the corresponding depths, and not related to an on-site source. PCE was detected at low levels in shallow soil samples, indicating potential source material, which has migrated to the groundwater table as evidenced by the groundwater results for VOCs.
- The elevated concentrations of chlorinated solvents (PCE, cis-1,2-dichloroethene, and chloroform) in groundwater and soil vapor indicate the possible presence of a release. As the current and prior usage of the Site include parking and residential, the source of the chlorinated solvent detections is unknown at this time.
- The detected metal and PAH concentrations in the groundwater samples were likely attributable to regional groundwater contamination and particulate material entrained in the samples.
- The elevated concentrations of chlorinated solvents in soil vapor are likely attributable to off-gassing from the elevated solvent concentrations in groundwater or the detections in shallow soil.

6.2 Recommendations

AKRF understands that the Client is proposing to redevelop the Site with two buildings: a 13-story mixed-used residential building on the Site's 31st Street frontage with 167 affordable senior units and one superintendent's unit and ground-floor retail space; and a three-story community facility building on the Site's 32nd Street frontage. The 13-story building would have a full cellar level, which would require excavation to approximately 12 feet below grade (with limited deeper excavation for foundation elements). The remainder of the Site would be redeveloped with private open space.

- A Remedial Action Plan (RAP) and associated Construction Health and Safety Plan (CHASP) should be prepared for implementation during proposed construction and submitted for DEP approval. The RAP should address requirements for items such as: soil stockpiling, soil disposal and transportation; dust control; tank removal procedures and contingency measures

if petroleum storage tank(s) or other contamination should be unexpectedly encountered; and installation of a vapor barrier beneath the new building foundations to mitigate potential vapor intrusion from new or existing off-site sources. The CHASP should include measures for worker and community protection, including personal protective equipment, dust control, air monitoring, and emergency response procedures.

- Any soil or fill excavated as part of future Site redevelopment activities should be managed in accordance with applicable regulations. All material intended for off-site disposal (including all dumped debris piles) should be tested in accordance with 6 NYCRR Part 360 regulations and the requirements of the intended receiving facility. Transportation of all material leaving the Site for off-site disposal should be in accordance with 6 NYCRR Part 364 requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc. Excavation may reveal different or more significant soil contamination in areas not tested as part of this investigation. If discovered, such contamination could require further investigation and/or remediation in accordance with applicable regulations.
- If dewatering is required during future construction activities, water must be disposed or discharged in accordance with local, county, state, and federal requirements.
- Based on the elevated concentrations of chlorinated solvents in soil vapor, a vapor mitigation system, including a vapor barrier and sub-slab depressurization system (SSDS), is recommended to be installed during new building construction, to prevent intrusion of contaminated vapors into the proposed building.

7.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by Mega Development LLC. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

8.0 SOIL DISPOSAL ISSUES

In addition to the discussions in the Conclusions, Recommendations, and Limitations Sections (Sections 6.0 and 7.0), the issue of appropriate management of off-site disposal of soil warrants careful consideration. Any material being disposed of off-site is a regulated waste, and disposal must be in accordance with:

- Requirements of the specific receiving facility;
- Requirements of any agencies overseeing the cleanup/excavation; and
- Federal and state requirements (sometimes in both the state where the soil is generated and where disposal will occur).

For hazardous wastes and petroleum-contaminated soil (and other 'clearly contaminated' materials), the requirements are usually fairly well defined. It is in the situation where contamination is not readily apparent (e.g., so called "historic or urban fill" or "construction and demolition debris" or material that may have been formerly identified as "clean fill") that present the greatest potential for problems and cost overruns. Even on sites where no contamination requiring remediation is identified, it is common that most of the excavated material is considered "contaminated" for purposes of waste disposal. Concentrations of the various contaminants in historic fill can be highly variable, and upon further testing, the material could contain higher contaminant concentrations than outlined in this investigation. Portions of this material could be classified as hazardous waste.

It is important that the intended disposal facility (or facilities) be identified in advance of off-site disposal. Agency approval is sometimes required for disposal, and the facility will frequently require additional testing prior to (and sometimes at the time of) accepting material. Material must conform to a lengthy list of requirements based on both chemical composition and sometimes numerous other parameters (related to size, percentage of liquids, presence of odors, etc.) for acceptance at the facility. Assuming (or allowing a contractor to assume) that all, or even most, of the soil from a site can be disposed of at minimal cost may result in unanticipated and expensive change orders.

For these reasons, we recommend that professional advice be sought prior to preparing bid documents and contracts incorporating soil disposal.

9.0 REFERENCES

1. Phase I Environmental Site Assessment, 31-07 31st Street, Astoria, New York, AKRF, June 2021.
2. Subsurface (Phase II) Investigation Work Plan, 31-07 31st Street, Astoria, New York, AKRF, June 2022.
3. 6 NYCRR § 375, New York State Department of Environmental Conservation Rules and Regulations, Remedial Program Requirements, effective December 14, 2006.
4. New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1), Class GA Ambient Water Quality Standards and Guidance Values.
5. U.S. Geological Survey – Central Park, New York- 2013 Quadrangle, 7.5 minute Series (Topographic), Scale 1:24,000, 2013.

TABLES

Table 1
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003
		Laboratory Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2	460-266752-3
		Date Sampled	10/05/2022	10/05/2022	10/03/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1,2-Trichloroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1-Dichloroethane	0.27	26	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1-Dichloroethene	0.33	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2,3-Trichlorobenzene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2,4-Trichlorobenzene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2,4-Trimethylbenzene	3.6	52	0.00055 J	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dichlorobenzene	1.1	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dichloroethane	0.02	3.1	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dichloropropane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,3-Dichlorobenzene	2.4	49	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,4-Dichlorobenzene	1.8	13	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
2-Hexanone	NS	NS	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Acetone	0.05	100	0.008 U	**0.16**	0.0012 U	0.0071	0.0014 U
Benzene	0.06	4.8	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromochloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromodichloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromoform	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromomethane	NS	NS	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U
Carbon Disulfide	NS	NS	0.0013 U	0.0013 UT	0.0002 U	0.00019 U	0.00023 U
Carbon Tetrachloride	0.76	2.4	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chlorobenzene	1.1	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chloroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chloroform	0.37	49	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Cis-1,2-Dichloroethylene	0.25	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Cis-1,3-Dichloropropene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Cyclohexane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Dibromochloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Dichlorodifluoromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Ethylbenzene	1	41	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Isopropylbenzene (Cumene)	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
M,P-Xylenes	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Methyl Acetate	NS	NS	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Methylcyclohexane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Methylene Chloride	0.05	100	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U
N-Butylbenzene	12	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
N-Propylbenzene	3.9	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Sec-Butylbenzene	11	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Styrene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
T-Butylbenzene	5.9	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Tert-Butyl Methyl Ether	0.93	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Tetrachloroethylene (PCE)	1.3	19	0.0013 U	0.002	0.0013	0.00019 U	0.00023 U
Toluene	0.7	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trans-1,2-Dichloroethene	0.19	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trans-1,3-Dichloropropene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trichloroethylene (TCE)	0.47	21	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trichlorofluoromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Vinyl Chloride	0.02	0.9	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Xylenes, Total	0.26	100	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U

Table 1
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004	
		Laboratory Sample ID	460-266752-4		460-266752-5		460-266752-6		460-266826-1		460-266826-2	
		Date Sampled	10/03/2022		10/03/2022		10/03/2022		10/04/2022		10/04/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1		1	
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1,2,2-Tetrachloroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1,2-Trichloroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1-Dichloroethane	0.27	26	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1-Dichloroethene	0.33	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2,3-Trichlorobenzene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2,4-Trichlorobenzene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2,4-Trimethylbenzene	3.6	52	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dichlorobenzene	1.1	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dichloroethane	0.02	3.1	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dichloropropane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,3-Dichlorobenzene	2.4	49	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,4-Dichlorobenzene	1.8	13	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
2-Hexanone	NS	NS	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Acetone	0.05	100	0.014		0.0013	U	0.0012	U	0.0065	U	**0.14**	
Benzene	0.06	4.8	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromochloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromodichloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromoform	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromomethane	NS	NS	0.00039	U	0.00043	U	0.00039	U	0.0022	U	0.0032	U
Carbon Disulfide	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Carbon Tetrachloride	0.76	2.4	0.0002	UT	0.00021	UT	0.0002	UT	0.0011	U	0.0016	U
Chlorobenzene	1.1	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Chloroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Chloroform	0.37	49	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Chloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Cis-1,2-Dichloroethylene	0.25	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Cis-1,3-Dichloropropene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Cyclohexane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Dibromochloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Dichlorodifluoromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Ethylbenzene	1	41	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Isopropylbenzene (Cumene)	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
M,P-Xylenes	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Methyl Acetate	NS	NS	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Methylcyclohexane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Methylene Chloride	0.05	100	0.00039	U	0.00043	U	0.00039	U	0.0022	U	0.0032	U
N-Butylbenzene	12	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
N-Propylbenzene	3.9	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Sec-Butylbenzene	11	100	0.0002	UT	0.00021	UT	0.0002	UT	0.0011	U	0.0016	U
Styrene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
T-Butylbenzene	5.9	100	0.0002	UT	0.00021	UT	0.0002	UT	0.0011	U	0.0016	U
Tert-Butyl Methyl Ether	0.93	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Tetrachloroethylene (PCE)	1.3	19	0.0002	U	0.00021	U	0.0002	U	0.0097		0.0014	J
Toluene	0.7	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trans-1,2-Dichloroethene	0.19	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trans-1,3-Dichloropropene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trichloroethylene (TCE)	0.47	21	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trichlorofluoromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Vinyl Chloride	0.02	0.9	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Xylenes, Total	0.26	100	0.00039	U	0.00043	U	0.00039	U	0.0022	U	0.0032	U

Table 1
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-06_0-2_20221004	SB-06_29-31_20221004	SB-07_0-2_20221003	SB-07_32-34_20221003
		Laboratory Sample ID	460-266826-3	460-266826-4	460-266752-7	460-266752-8
		Date Sampled	10/04/2022	10/04/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1,2-Trichloroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1-Dichloroethane	0.27	26	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1-Dichloroethene	0.33	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2,3-Trichlorobenzene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2,4-Trichlorobenzene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2,4-Trimethylbenzene	3.6	52	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dichlorobenzene	1.1	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dichloroethane	0.02	3.1	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dichloropropane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,3-Dichlorobenzene	2.4	49	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,4-Dichlorobenzene	1.8	13	0.0014 U	0.0012 U	0.00022 U	0.0002 U
2-Hexanone	NS	NS	0.0071 U	0.0061 U	0.0011 U	0.001 U
Acetone	0.05	100	0.0085 U	0.0073 U	0.01	0.031
Benzene	0.06	4.8	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Bromochloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Bromodichloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Bromoform	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 UT
Bromomethane	NS	NS	0.0028 U	0.0024 U	0.00043 U	0.0004 U
Carbon Disulfide	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Carbon Tetrachloride	0.76	2.4	0.0014 U	0.0012 U	0.00022 UT	0.0002 U
Chlorobenzene	1.1	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Chloroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Chloroform	0.37	49	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Chloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Cis-1,2-Dichloroethylene	0.25	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Cis-1,3-Dichloropropene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Cyclohexane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Dibromochloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Dichlorodifluoromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Ethylbenzene	1	41	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Isopropylbenzene (Cumene)	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
M,P-Xylenes	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Methyl Acetate	NS	NS	0.0071 U	0.0061 U	0.0011 U	0.001 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0071 U	0.0061 U	0.0011 U	0.001 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0071 U	0.0061 U	0.0011 U	0.001 U
Methylcyclohexane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Methylene Chloride	0.05	100	0.0028 U	0.0024 U	0.00043 U	0.0004 U
N-Butylbenzene	12	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
N-Propylbenzene	3.9	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Sec-Butylbenzene	11	100	0.0014 U	0.0012 U	0.00022 UT	0.0002 U
Styrene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
T-Butylbenzene	5.9	100	0.0014 U	0.0012 U	0.00022 UT	0.0002 U
Tert-Butyl Methyl Ether	0.93	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Tetrachloroethylene (PCE)	1.3	19	0.0014 U	0.00087 J	0.00024	0.00024
Toluene	0.7	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trans-1,2-Dichloroethene	0.19	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trans-1,3-Dichloropropene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trichloroethylene (TCE)	0.47	21	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trichlorofluoromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Vinyl Chloride	0.02	0.9	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Xylenes, Total	0.26	100	0.0028 U	0.0024 U	0.00043 U	0.0004 U

Table 2
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003
		Laboratory Sample ID	460-266877-1	460-266877-1	460-266877-2	460-266752-1	460-266752-2	460-266752-3
		Date Sampled	10/05/2022	10/05/2022	10/05/2022	10/03/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	5	1	1	1	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
2,4-Dichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
2,4-Dimethylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2,4-Dinitrophenol	NS	NS	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U
2,4-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U
2,6-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U
2-Chloronaphthalene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Chlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Methylnaphthalene	NS	NS	0.28 J	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Nitrophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
3- And 4- Methylphenol (Total)	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
3-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Chloroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Nitrophenol	NS	NS	0.73 U	NR	0.68 U	0.72 U	0.69 U	0.79 U
Acenaphthene	20	100	0.84	NR	0.34 U	0.35 U	0.34 U	0.39 U
Acenaphthylene	100	100	0.22 J	NR	0.34 U	0.35 U	0.34 U	0.39 U
Acetophenone	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Anthracene	100	100	2.3	NR	0.34 U	0.35 U	0.34 U	0.39 U
Atrazine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
Benzaldehyde	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Benzo(a)Anthracene	1	1	**6.5**	NR	0.034 U	0.031 J	0.034 U	0.049
Benzo(a)Pyrene	1	1	**5.3**	NR	0.034 U	0.025 J	0.034 U	0.041
Benzo(b)Fluoranthene	1	1	**7.1**	NR	0.034 U	0.033 J	0.034 U	0.057
Benzo(g,h,i)Perylene	100	100	3.3	NR	0.34 U	0.015 J	0.34 U	0.024 J
Benzo(k)Fluoranthene	0.8	3.9	**2.3**	NR	0.034 U	0.014 J	0.034 U	0.022 J
Benzyl Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Biphenyl (Diphenyl)	NS	NS	0.081 J	NR	0.34 U	0.35 U	0.34 U	0.39 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Caprolactam	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Carbazole	NS	NS	0.86	NR	0.34 U	0.35 U	0.34 U	0.39 U
Chrysene	1	3.9	**6**	NR	0.34 U	0.025 J	0.34 U	0.046 J
Dibenz(a,h)Anthracene	0.33	0.33	**0.95**	NR	0.034 U	0.035 U	0.034 U	0.039 U
Dibenzofuran	7	59	0.5	NR	0.34 U	0.35 U	0.34 U	0.39 U
Diethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Dimethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Di-N-Octylphthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Fluoranthene	100	100	NR	18	0.34 U	0.039 J	0.34 U	0.076 J
Fluorene	30	100	0.77	NR	0.34 U	0.35 U	0.34 U	0.39 U
Hexachlorobenzene	0.33	1.2	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
Hexachlorobutadiene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Hexachloroethane	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**4.2**	NR	0.034 U	0.018 J	0.034 U	0.028 J
Isophorone	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
Naphthalene	12	100	0.37	NR	0.34 U	0.35 U	0.34 U	0.39 U
Nitrobenzene	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Pentachlorophenol	0.8	6.7	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U
Phenanthrene	100	100	NR	16	0.34 U	0.015 J	0.34 U	0.035 J
Phenol	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Pyrene	100	100	NR	17	0.34 U	0.039 J	0.34 U	0.075 J

Table 2
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-03_31-33_20221003	SB-04_0-2_20221003	SB-04_32-34_20221003	SB-05_0-2_20221004	SB-05_0-2_20221004	SB-05_29-31_20221004
		Laboratory Sample ID	460-266752-4	460-266752-5	460-266752-6	460-266826-1	460-266826-1	460-266826-2
		Date Sampled	10/03/2022	10/03/2022	10/03/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	10	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2,4-Dinitrophenol	NS	NS	0.28 U	0.3 U	0.27 U	0.29 U	NR	0.27 U
2,4-Dinitrotoluene	NS	NS	0.071 U	0.075 U	0.069 U	0.074 U	NR	0.069 U
2,6-Dinitrotoluene	NS	NS	0.071 U	0.075 U	0.069 U	0.074 U	NR	0.069 U
2-Chloronaphthalene	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Chlorophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Methylnaphthalene	NS	NS	0.35 U	0.37 U	0.34 U	0.28 J	NR	0.34 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Nitroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Nitrophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
3-Nitroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.28 U	0.3 U	0.27 U	0.29 U	NR	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Chloroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Nitroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Nitrophenol	NS	NS	0.71 U	0.75 U	0.69 U	0.74 U	NR	0.69 U
Acenaphthene	20	100	0.35 U	0.37 U	0.34 U	2.7	NR	0.03 J
Acenaphthylene	100	100	0.35 U	0.37 U	0.34 U	0.67	NR	0.037 J
Acetophenone	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Anthracene	100	100	0.35 U	0.025 J	0.34 U	6.5	NR	0.08 J
Atrazine	NS	NS	0.14 U	0.15 U	0.14 U	0.15 UT	NR	0.14 UT
Benzaldehyde	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Benzo(a)Anthracene	1	1	0.035 U	0.092	0.034 U	NR	**25**	0.27
Benzo(a)Pyrene	1	1	0.035 U	0.08	0.034 U	NR	**23**	0.29
Benzo(b)Fluoranthene	1	1	0.035 U	0.11	0.034 U	NR	**29**	0.39
Benzo(g,h,i)Perylene	100	100	0.35 U	0.042 J	0.34 U	7.5	NR	1.3
Benzo(k)Fluoranthene	0.8	3.9	0.035 U	0.036 J	0.034 U	**7.6**	NR	0.14
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.37 U	0.34 U	0.14 J	NR	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.08 J	0.34 U	0.37 U	NR	0.34 U
Caprolactam	NS	NS	0.35 U	0.37 U	0.34 U	0.37 UT	NR	0.34 UT
Carbazole	NS	NS	0.35 U	0.37 U	0.34 U	1.9	NR	0.023 J
Chrysene	1	3.9	0.35 U	0.088 J	0.34 U	NR	**23**	0.2 J
Dibenz(a,h)Anthracene	0.33	0.33	0.035 U	0.037 U	0.034 U	**2.7**	NR	0.22
Dibenzofuran	7	59	0.35 U	0.37 U	0.34 U	1.2	NR	0.34 U
Diethyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Dimethyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.026 J	NR	0.34 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Fluoranthene	100	100	0.35 U	0.17 J	0.34 U	NR	48	0.46
Fluorene	30	100	0.35 U	0.37 U	0.34 U	2.5	NR	0.018 J
Hexachlorobenzene	0.33	1.2	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
Hexachlorobutadiene	NS	NS	0.071 U	0.075 U	0.069 U	0.074 U	NR	0.069 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Hexachloroethane	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.035 U	0.048	0.034 U	NR	**17**	**1.2**
Isophorone	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
Naphthalene	12	100	0.35 U	0.37 U	0.34 U	0.47	NR	0.0062 J
Nitrobenzene	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.37 U	0.34 U	0.056 J	NR	0.34 U
Pentachlorophenol	0.8	6.7	0.28 U	0.3 U	0.27 U	0.29 U	NR	0.27 U
Phenanthrene	100	100	0.35 U	0.1 J	0.34 U	NR	27	0.18 J
Phenol	0.33	100	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Pyrene	100	100	0.35 U	0.17 J	0.34 U	NR	38	0.39

Table 2
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266826-3		460-266826-4		460-266752-7		460-266752-8	
		Date Sampled	10/04/2022		10/04/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	13	0.036	U	0.034	U	0.037	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2,4-Dinitrophenol	NS	NS	0.29	U	0.28	U	0.3	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U
2,6-Dinitrotoluene	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U
2-Chloronaphthalene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Chlorophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Methylnaphthalene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.36	U	0.34	U	0.37	U	0.34	U
2-Nitroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Nitrophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
3,3'-Dichlorobenzidine	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
3-Nitroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29	U	0.28	U	0.3	U	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Chloroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.36	U	0.34	U	0.37	U	0.34	U
4-Nitroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Nitrophenol	NS	NS	0.73	U	0.69	U	0.76	U	0.69	U
Acenaphthene	20	100	0.36	U	0.34	U	0.37	U	0.34	U
Acenaphthylene	100	100	0.01	J	0.34	U	0.37	U	0.34	U
Acetophenone	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Anthracene	100	100	0.028	J	0.023	J	0.37	U	0.34	U
Atrazine	NS	NS	0.15	UT	0.14	UT	0.15	U	0.14	U
Benzaldehyde	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Benzo(a)Anthracene	1	1	0.036	U	0.034	U	0.061		0.034	U
Benzo(a)Pyrene	1	1	0.13		0.053		0.056		0.034	U
Benzo(b)Fluoranthene	1	1	0.17		0.034	U	0.083		0.034	U
Benzo(g,h,i)Perylene	100	100	0.062	J	0.024	J	0.029	J	0.34	U
Benzo(k)Fluoranthene	0.8	3.9	0.066		0.034	U	0.035	J	0.034	U
Benzyl Butyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36	U	0.34	U	0.022	J	0.34	U
Caprolactam	NS	NS	0.36	UT	0.34	UT	0.37	U	0.34	U
Carbazole	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Chrysene	1	3.9	0.11	J	0.049	J	0.062	J	0.34	U
Dibenz(a,h)Anthracene	0.33	0.33	0.036	U	0.034	U	0.037	U	0.034	U
Dibenzofuran	7	59	0.36	U	0.34	U	0.37	U	0.34	U
Diethyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Dimethyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Fluoranthene	100	100	0.22	J	0.1	J	0.094	J	0.34	U
Fluorene	30	100	0.36	U	0.34	U	0.37	U	0.34	U
Hexachlorobenzene	0.33	1.2	0.036	U	0.034	U	0.037	U	0.034	U
Hexachlorobutadiene	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Hexachloroethane	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.14		0.071		0.034	J	0.034	U
Isophorone	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
Naphthalene	12	100	0.36	U	0.34	U	0.37	U	0.34	U
Nitrobenzene	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Pentachlorophenol	0.8	6.7	0.29	U	0.28	U	0.3	U	0.27	U
Phenanthrene	100	100	0.12	J	0.076	J	0.039	J	0.34	U
Phenol	0.33	100	0.36	U	0.34	U	0.37	U	0.34	U
Pyrene	100	100	0.21	J	0.1	J	0.093	J	0.34	U

Table 3
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003
		Laboratory Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2
		Date Sampled	10/05/2022	10/05/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	**NS**	5,960	2,340	4,180	2,810
Antimony	**NS**	**NS**	0.25 J	0.81 U	1 U	0.94 U
Arsenic	**13**	**16**	2.2	0.62 J	1.5	0.61 J
Barium	**350**	**400**	35.1	20.7	36.3	23.4
Beryllium	**7.2**	**72**	0.32 J	0.12 J	0.24 J	0.23 J
Cadmium	**2.5**	**4.3**	0.098 J	0.81 U	0.14 J	0.11 J
Calcium	**NS**	**NS**	5,840	7,590	7,730	21,600
Chromium, Hexavalent	**1**	**110**	2.1 U	2 U	2.1 U	2.1 U
Chromium, Total	**NS**	**NS**	16.7	8	9.5	8.3
Cobalt	**NS**	**NS**	5.2	2.9	3.7	2.9
Copper	**50**	**270**	15.2	6.8	12.5	9.5
Iron	**NS**	**NS**	10,500	5,240	7,870	6,500
Lead	**63**	**400**	19.1	2.8	13	4
Magnesium	**NS**	**NS**	2,460	4,370	4,190	12,100
Manganese	**1,600**	**2,000**	338	183	207	168
Mercury	**0.18**	**0.81**	0.018	0.016 U	0.15	0.07
Nickel	**30**	**310**	12.1	5.7	8.8	6.7
Potassium	**NS**	**NS**	714	383	744	522
Selenium	**3.9**	**180**	1.1 U	1 U	0.16 J	0.17 J
Silver	**2**	**180**	0.35 U	0.32 U	0.41 U	0.38 U
Sodium	**NS**	**NS**	152	117	275	201
Thallium	**NS**	**NS**	0.058 J	0.32 U	0.11 J	0.069 J
Vanadium	**NS**	**NS**	21.8	7.4	14.8	9.8
Zinc	**109**	**10,000**	28.9	10.2	36.2	15.2

Table 3
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-03_0-2_20221003		SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_32-34_20221003	
		Laboratory Sample ID	460-266752-3		460-266752-4		460-266752-5		460-266752-6	
		Date Sampled	10/03/2022		10/03/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
Aluminum	**NS**	**NS**	6,790		3,030		9,180		4,170	
Antimony	**NS**	**NS**	0.16	J	1	U	0.49	J	1	U
Arsenic	**13**	**16**	2.5		0.86	J	4		1.3	
Barium	**350**	**400**	62.6		19.1		78.8		35.4	
Beryllium	**7.2**	**72**	0.36	J	0.16	J	0.63		0.26	J
Cadmium	**2.5**	**4.3**	0.21	J	1	U	0.43	J	1	U
Calcium	**NS**	**NS**	32,300		1,560		9,950		1,230	
Chromium, Hexavalent	**1**	**110**	2.3	U	2.2	U	2.2	U	2.1	U
Chromium, Total	**NS**	**NS**	16.4		10.1		19.1		19.3	
Cobalt	**NS**	**NS**	5		2.6		9.6		4.6	
Copper	**50**	**270**	23.3		8.2		34.8		18.3	
Iron	**NS**	**NS**	11,300		6,720		20,700		10,400	
Lead	**63**	**400**	**81.7**		2.7		**80**		6.1	
Magnesium	**NS**	**NS**	5,740		1,940		4,900		2,050	
Manganese	**1,600**	**2,000**	216		177		689		268	
Mercury	**0.18**	**0.81**	0.077		0.071		**0.59**		0.018	U
Nickel	**30**	**310**	13.5		6.4		20.7		10.2	
Potassium	**NS**	**NS**	1,360		510		2,720		826	
Selenium	**3.9**	**180**	0.18	J	1.2	U	0.35	J	1.3	U
Silver	**2**	**180**	0.44	U	0.4	U	0.43	U	0.4	U
Sodium	**NS**	**NS**	309		161		301		199	
Thallium	**NS**	**NS**	0.093	J	0.4	U	0.21	J	0.07	J
Vanadium	**NS**	**NS**	20.8		8.5		31.6		15.3	
Zinc	**109**	**10,000**	65.1		14.4		107		27.3	

Table 3
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-05_0-2_20221004	SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Laboratory Sample ID	460-266826-1	460-266826-2	460-266826-3	460-266826-4
		Date Sampled	10/04/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**0-2_20221004 Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	**NS**	6,680	3,380	6,750	3,730
Antimony	**NS**	**NS**	0.3 J	1 U	1 U	1 U
Arsenic	**13**	**16**	6.9	0.72 J	3.4	0.79 J
Barium	**350**	**400**	119	22.4	37.3	23
Beryllium	**7.2**	**72**	0.4 J	0.19 J	0.41 J	0.19 J
Cadmium	**2.5**	**4.3**	0.66 J	1 U	0.16 J	1 U
Calcium	**NS**	**NS**	18,600	18,100	8,910	22,200
Chromium, Hexavalent	**1**	**110**	2.2 U	2.1 U	2.2 U	2.1 U
Chromium, Total	**NS**	**NS**	15.5	9.7	12.3	9.1
Cobalt	**NS**	**NS**	5.3	3	6	3.7
Copper	**50**	**270**	**63.1**	8.9	27.7	9.6
Iron	**NS**	**NS**	13,600	6,800	11,500	8,350
Lead	**63**	**400**	**283**	4.8	30.4	2.2
Magnesium	**NS**	**NS**	5,510	9,550	3,720	14,700
Manganese	**1,600**	**2,000**	265	190	335	176
Mercury	**0.18**	**0.81**	0.094	0.017 U	0.075	0.034
Nickel	**30**	**310**	16.3	6.7	12.3	7.9
Potassium	**NS**	**NS**	1,050	694	763	918
Selenium	**3.9**	**180**	0.48 J	1.3 U	0.19 J	1.3 U
Silver	**2**	**180**	0.25 J	0.41 U	0.42 U	0.4 U
Sodium	**NS**	**NS**	444	175	281	281
Thallium	**NS**	**NS**	0.13 J	0.41 U	0.079 J	0.049 J
Vanadium	**NS**	**NS**	28.1	12.5	17.2	15.5
Zinc	**109**	**10,000**	**149**	16.4	42.5	22.7

Table 3
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266752-7		460-266752-8	
		Date Sampled	10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg	
		Dilution Factor	1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**
Aluminum	**NS**	**NS**	5,980		3,830	
Antimony	**NS**	**NS**	0.2	J	1	U
Arsenic	**13**	**16**	3.9		1	
Barium	**350**	**400**	66.6		29.2	
Beryllium	**7.2**	**72**	0.31	J	0.22	J
Cadmium	**2.5**	**4.3**	0.33	J	1	U
Calcium	**NS**	**NS**	27,200		6,370	
Chromium, Hexavalent	**1**	**110**	2.3	U	2.1	U
Chromium, Total	**NS**	**NS**	15.1		10.2	
Cobalt	**NS**	**NS**	5.4		3.6	
Copper	**50**	**270**	39.8		15.4	
Iron	**NS**	**NS**	13,300		8,020	
Lead	**63**	**400**	**131**		13.7	
Magnesium	**NS**	**NS**	11,900		4,700	
Manganese	**1,600**	**2,000**	274		212	
Mercury	**0.18**	**0.81**	0.11		0.016	U
Nickel	**30**	**310**	16.8		8.1	
Potassium	**NS**	**NS**	1,220		729	
Selenium	**3.9**	**180**	0.19	J	1.2	U
Silver	**2**	**180**	0.11	J	0.4	U
Sodium	**NS**	**NS**	402		170	
Thallium	**NS**	**NS**	0.11	J	0.062	J
Vanadium	**NS**	**NS**	32.6		13.4	
Zinc	**109**	**10,000**	109		21.4	

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003	
		Laboratory Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2	
		Date Sampled	10/05/2022		10/05/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.073	U	0.069	U	0.063	J	0.069	U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
Total PCBs	**0.1**	**1**	0.073	U	0.069	U	0.063	J	0.069	U

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-03_0-2_20221003		SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_32-34_20221003	
		Laboratory Sample ID	460-266752-3		460-266752-4		460-266752-5		460-266752-6	
		Date Sampled	10/03/2022		10/03/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
Total PCBs	**0.1**	**1**	0.079	U	0.071	U	0.075	U	0.069	U

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-05_0-2_20221004	SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Laboratory Sample ID	460-266826-1	460-266826-2	460-266826-3	460-266826-4
		Date Sampled	10/04/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
Total PCBs	**0.1**	**1**	0.074 U	0.069 U	0.073 U	0.069 U

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266752-7		460-266752-8	
		Date Sampled	10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg	
		Dilution Factor	1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.076	U	0.069	U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.076	U	0.069	U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.076	U	0.069	U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.076	U	0.069	U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.076	U	0.069	U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.076	U	0.069	U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.076	U	0.069	U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.076	U	0.069	U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.076	U	0.069	U
Total PCBs	**0.1**	**1**	0.076	U	0.069	U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003
		Laboratory Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2
		Date Sampled	10/05/2022	10/05/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aldrin	**0.005**	**0.097**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0022 U	0.002 U	0.0021 U	0.002 U
Alpha Endosulfan	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0022 U	0.002 U	0.0021 U	0.002 U
Beta Endosulfan	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
cis-Chlordane	**0.094**	**4.2**	0.0073 U	0.0069 U	0.0052 JP	0.0069 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0022 U	0.002 U	0.0021 U	0.002 U
Dieldrin	**0.005**	**0.2**	0.002 J	0.002 U	0.0021 U	0.002 U
Endosulfan Sulfate	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Endosulfans ABS	**2.4**	**24**	0 U	0 U	0 U	0 U
Endrin	**0.014**	**11**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Endrin Aldehyde	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Endrin Ketone	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0022 U	0.002 U	0.0021 U	0.002 U
Heptachlor	**0.042**	**2.1**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Heptachlor Epoxide	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Methoxychlor	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
P,P'-DDD	**0.0033**	**13**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
P,P'-DDE	**0.0033**	**8.9**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
P,P'-DDT	**0.0033**	**7.9**	0.0033 J	0.0069 U	0.0072 U	0.0069 U
Toxaphene	**NS**	**NS**	0.073 U	0.069 U	0.072 U	0.069 U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-03_0-2_20221003	SB-03_31-33_20221003	SB-04_0-2_20221003	SB-04_32-34_20221003
		Laboratory Sample ID	460-266752-3	460-266752-4	460-266752-5	460-266752-6
		Date Sampled	10/03/2022	10/03/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aldrin	**0.005**	**0.097**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Alpha Endosulfan	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Beta Endosulfan	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
cis-Chlordane	**0.094**	**4.2**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Dieldrin	**0.005**	**0.2**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Endosulfan Sulfate	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Endosulfans ABS	**2.4**	**24**	0 U	0 U	0 U	0 U
Endrin	**0.014**	**11**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Endrin Aldehyde	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Endrin Ketone	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Heptachlor	**0.042**	**2.1**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Heptachlor Epoxide	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Methoxychlor	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
P,P'-DDD	**0.0033**	**13**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
P,P'-DDE	**0.0033**	**8.9**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
P,P'-DDT	**0.0033**	**7.9**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Toxaphene	**NS**	**NS**	0.079 U	0.071 U	0.075 U	0.069 U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-05_0-2_20221004	SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Laboratory Sample ID	460-266826-1	460-266826-2	460-266826-3	460-266826-4
		Date Sampled	10/04/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aldrin	**0.005**	**0.097**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Alpha Endosulfan	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Beta Endosulfan	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
cis-Chlordane	**0.094**	**4.2**	0.013 P	0.0069 U	0.0073 U	0.0069 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Dieldrin	**0.005**	**0.2**	0.0027	0.0021 U	0.0022 U	0.0021 U
Endosulfan Sulfate	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Endosulfans ABS	**2.4**	**24**	0 U	0 U	0 U	0 U
Endrin	**0.014**	**11**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Endrin Aldehyde	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Endrin Ketone	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Heptachlor	**0.042**	**2.1**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Heptachlor Epoxide	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Methoxychlor	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
P,P'-DDD	**0.0033**	**13**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
P,P'-DDE	**0.0033**	**8.9**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
P,P'-DDT	**0.0033**	**7.9**	**0.0063 J**	0.0069 U	0.0073 U	0.0069 U
Toxaphene	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266752-7		460-266752-8	
		Date Sampled	10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg	
		Dilution Factor	1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**
Aldrin	**0.005**	**0.097**	0.0076	U	0.0069	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0023	U	0.0021	U
Alpha Endosulfan	**NS**	**NS**	0.0076	U	0.0069	U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0023	U	0.0021	U
Beta Endosulfan	**NS**	**NS**	0.0076	U	0.0069	U
cis-Chlordane	**0.094**	**4.2**	0.0076	U	0.0069	U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0023	U	0.0021	U
Dieldrin	**0.005**	**0.2**	0.0023	U	0.0021	U
Endosulfan Sulfate	**NS**	**NS**	0.0076	U	0.0069	U
Endosulfans ABS	**2.4**	**24**	0	U	0	U
Endrin	**0.014**	**11**	0.0076	U	0.0069	U
Endrin Aldehyde	**NS**	**NS**	0.0076	U	0.0069	U
Endrin Ketone	**NS**	**NS**	0.0076	U	0.0069	U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0023	U	0.0021	U
Heptachlor	**0.042**	**2.1**	0.0076	U	0.0069	U
Heptachlor Epoxide	**NS**	**NS**	0.0076	U	0.0069	U
Methoxychlor	**NS**	**NS**	0.0076	U	0.0069	U
P,P'-DDD	**0.0033**	**13**	0.0076	U	0.0069	U
P,P'-DDE	**0.0033**	**8.9**	0.0076	U	0.0069	U
P,P'-DDT	**0.0033**	**7.9**	0.0076	U	0.0069	U
Toxaphene	**NS**	**NS**	0.076	U	0.069	U

Table 6
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
VOCs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004		TB_20221003	
	Laboratory Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6		460-266752-10	
	Date Sampled	10/05/2022		10/03/2022		10/04/2022		10/04/2022		10/03/2022	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
	Dilution Factor	1		1		1		1		1	
Compound	AWQSGV	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U
Acetone	50	50		5	U	5	U	5	U	5	U
Benzene	1	0.3	J	1	U	1	U	1	U	1	U
Bromochloromethane	5	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	50	1	U	1	U	1	U	0.5	J	1	U
Bromoform	50	1	U	1	U	1	U	1	U	1	U
Bromomethane	5	1	U	1	UT	1	UT	1	UT	1	UT
Carbon Disulfide	60	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1.6		2.4		2.7		**9.2**		1	U
Chloromethane	5	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethylene	5	**14**		**6.7**		0.41	J	2.3		1	U
Cis-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U
Cyclohexane	NS	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	50	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	5	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	5	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	5	1	U	1	U	1	U	1	U	0.47	J
Methyl Acetate	NS	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	9.4		5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	1	U	1	U	1	U	1	U	0.32	J
N-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U
Styrene	5	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	5	**100**		**19**		**100**		**330**		1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U
Trichloroethylene (TCE)	5	2.1		1	U	0.69	J	1.9		1	U
Trichlorofluoromethane	5	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	2	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	NS	2	U	2	U	2	U	2	U	2	U

Table 7
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
SVOCs

	AKRF Sample ID	TW-01_20221005	TW-02_20221003	TW-02_20221003	TW-03_20221004	TW-04_20221004
	Laboratory Sample ID	460-266877-3	460-266752-9	460-266752-9	460-266826-5	460-266826-6
	Date Sampled	10/05/2022	10/03/2022	10/03/2022	10/04/2022	10/04/2022
	Unit	µg/L	µg/L	µg/L	µg/L	µg/L
	Dilution Factor	1	1	5	1	1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	NR	10 U	10 U
1,4-Dioxane (P-Dioxane)	NS	10 U	10 U	NR	10 U	10 U
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U	NR	10 U	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U	NR	10 U	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U	NR	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	NR	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	NR	10 U	10 U
2,4-Dinitrophenol	10	40 U	40 U	NR	40 U	40 U
2,4-Dinitrotoluene	5	10 U	10 U	NR	10 U	10 U
2,6-Dinitrotoluene	5	2 U	2 U	NR	2 U	2 U
2-Chloronaphthalene	10	10 U	10 U	NR	10 U	10 U
2-Chlorophenol	NS	10 U	10 U	NR	10 U	10 U
2-Methylnaphthalene	NS	10 U	10 U	NR	10 U	10 U
2-Methylphenol (O-Cresol)	NS	10 U	10 U	NR	10 U	10 U
2-Nitroaniline	5	10 U	10 U	NR	10 U	10 U
2-Nitrophenol	NS	10 U	10 U	NR	10 U	10 U
3- And 4- Methylphenol (Total)	NS	10 U	10 U	NR	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	NR	10 U	10 U
3-Nitroaniline	5	10 U	10 U	NR	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20 U	20 U	NR	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	10 U	10 U	NR	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 U	NR	10 U	10 U
4-Chloroaniline	5	10 U	10 U	NR	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U	NR	10 U	10 U
4-Methylphenol (P-Cresol)	NS	10 U	10 U	NR	10 U	10 U
4-Nitroaniline	5	10 U	10 U	NR	10 U	10 U
4-Nitrophenol	NS	20 U	20 U	NR	20 U	20 U
Acenaphthene	20	10 U	10 U	NR	10 U	10 U
Acenaphthylene	NS	10 U	10 U	NR	10 U	10 U
Acetophenone	NS	10 U	10 U	NR	10 U	10 U
Anthracene	50	10 U	10 U	NR	10 U	10 U
Atrazine	7.5	2 UT	2 UT	NR	2 UT	2 UT
Benzaldehyde	NS	10 U	10 U	NR	10 U	10 U
Benzo(a)Anthracene	0.002	**2.1**	1 U	NR	1 U	1 U
Benzo(a)Pyrene	ND	**1.6**	1 U	NR	1 U	1 U
Benzo(b)Fluoranthene	0.002	**2.2**	2 U	NR	2 U	2 U
Benzo(g,h,i)Perylene	NS	1.7 J	10 U	NR	10 U	10 U
Benzo(k)Fluoranthene	0.002	1 U	1 U	NR	1 U	1 U
Benzyl Butyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Biphenyl (Diphenyl)	5	10 U	10 U	NR	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10 U	10 U	NR	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1 U	1 U	NR	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U	NR	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	**6.2**	2 U	NR	2 U	2 U
Caprolactam	NS	10 U	NR	98	10 U	10 U
Carbazole	NS	10 U	10 U	NR	10 U	10 U
Chrysene	0.002	**2**	2 U	NR	2 U	2 U
Dibenz(a,h)Anthracene	NS	1 U	1 U	NR	1 U	1 U
Dibenzofuran	NS	10 U	10 U	NR	10 U	10 U
Diethyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Dimethyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Di-N-Butyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Di-N-Octylphthalate	50	10 U	10 U	NR	10 U	10 U
Fluoranthene	50	4 J	10 U	NR	10 U	10 U
Fluorene	50	10 U	10 U	NR	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	NR	1 U	1 U
Hexachlorobutadiene	0.5	1 U	1 U	NR	1 U	1 U
Hexachlorocyclopentadiene	5	10 U	10 U	NR	10 U	10 U
Hexachloroethane	5	2 U	2 U	NR	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	0.002	**1.6 J**	2 U	NR	2 U	2 U
Isophorone	50	10 U	10 U	NR	10 U	10 U
Naphthalene	10	2 U	2 U	NR	2 U	2 U
Nitrobenzene	0.4	1 U	1 U	NR	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1 U	1 U	NR	1 U	1 U
N-Nitrosodiphenylamine	50	10 U	10 U	NR	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	NR	20 U	20 U
Phenanthrene	50	2.6 J	10 U	NR	10 U	10 U
Phenol	1	10 U	10 U	NR	10 U	10 U
Pyrene	50	3.4 J	10 U	NR	10 U	10 U

Table 8
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
Total Metals

AKRF Sample ID		TW-01_20221005	TW-01_20221005	TW-02_20221003	TW-03_20221004	TW-04_20221004
Laboratory Sample ID		460-266877-3	460-266877-3	460-266752-9	460-266826-5	460-266826-6
Date Sampled		10/05/2022	10/05/2022	10/03/2022	10/04/2022	10/04/2022
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	5	1	1	1
Compound	**AWQSGV**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	NR	294,000	21.1 J	771	2,320
Antimony	**3**	1.9 J	NR	2 U	2 U	2 U
Arsenic	**25**	**63.9**	NR	2 U	2 U	2 U
Barium	**1,000**	**3,540**	NR	103	140	171
Beryllium	**3**	**14.2**	NR	0.8 U	0.8 U	0.16 J
Cadmium	**5**	5	NR	2 U	2 U	2 U
Calcium	**NS**	NR	913,000	88,000	116,000	88,700
Chromium, Total	**50**	**3,390**	NR	4 U	5.5	14.6
Cobalt	**NS**	325	NR	1.7 J	1.6 J	3.3 J
Copper	**200**	**1,340**	NR	4 U	3.7 J	8.6
Iron	**300**	NR	**971,000**	120 U	**1,660**	**4,430**
Lead	**25**	**857**	NR	1.2 U	2.7	1.6
Magnesium	**35,000**	**355,000**	NR	33,700	**47,500**	33,100
Manganese	**300**	NR	**24,600**	**439**	261	**1,090**
Mercury	**0.7**	**1.7**	NR	0.2 U	0.2 U	0.2 U
Nickel	**100**	**922**	NR	4.3	4.3	11.7
Potassium	**NS**	66,400	NR	3,480	5,380	8,380
Selenium	**10**	1.5 J	NR	3.1	2.8	0.78 J
Silver	**50**	2.5	NR	2 U	2 U	2 U
Sodium	**20,000**	**74,600**	NR	**140,000**	**128,000**	**109,000**
Thallium	**0.5**	**5.1**	NR	0.8 U	0.8 U	0.8 U
Vanadium	**NS**	707	NR	4 U	3.2 J	7.1
Zinc	**2,000**	**2,640**	NR	16 U	6.7 J	11.9 J

Table 9
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
Dissolved Metals

AKRF Sample ID		TW-01_20221005	TW-02_20221003	TW-03_20221004	TW-04_20221004
Laboratory Sample ID		460-266877-3	460-266752-9	460-266826-5	460-266826-6
Date Sampled		10/05/2022	10/03/2022	10/04/2022	10/04/2022
Unit		µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1
Compound	**AWQSGV**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	40 U	40 U	233	797
Antimony	**3**	1.9 J	2 U	2 U	2 U
Arsenic	**25**	2 U	2 U	2 U	2 U
Barium	**1,000**	16.3	107	125	147
Beryllium	**3**	0.8 U	0.8 U	0.8 U	0.8 U
Cadmium	**5**	2 U	2 U	2 U	2 U
Calcium	**NS**	19,500	88,300	106,000	82,600
Chromium, Total	**50**	4 U	4 U	4 U	3.9 J
Cobalt	**NS**	0.91 J	1.7 J	1.1 J	2.5 J
Copper	**200**	4 U	4 U	2.5 J	4.9
Iron	**300**	120 U	120 U	**492**	**1,630**
Lead	**25**	1.2 U	1.2 U	3.8	1.1 J
Magnesium	**35,000**	4,050	34,500	**45,900**	30,400
Manganese	**300**	185	**450**	216	**1,020**
Mercury	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	**100**	9.9	3.9 J	2.4 J	4.9
Potassium	**NS**	4,310	3,590	4,950	7,610
Selenium	**10**	2.5 U	2.9	2.2 J	0.85 J
Silver	**50**	2 U	2 U	2 U	2 U
Sodium	**20,000**	**35,300**	**141,000**	**127,000**	**107,000**
Thallium	**0.5**	0.8 U	0.8 U	0.8 U	0.8 U
Vanadium	**NS**	4 U	4 U	2 J	2.8 J
Zinc	**2,000**	16 U	16 U	16 U	16 U

Table 10
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
PCBs

AKRF Sample ID		TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
Laboratory Sample ID		460-266877-3		460-266752-9		460-266826-5		460-266826-6	
Date Sampled		10/05/2022		10/03/2022		10/04/2022		10/04/2022	
Unit		µg/L		µg/L		µg/L		µg/L	
Dilution Factor		1		1		1		1	
Compound	**AWQSGV**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1221 (Aroclor 1221)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1232 (Aroclor 1232)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1242 (Aroclor 1242)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1248 (Aroclor 1248)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1254 (Aroclor 1254)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1260 (Aroclor 1260)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1262 (Aroclor 1262)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1268 (Aroclor 1268)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
Total PCBs	**0.09**	0.4	U	0.4	U	0.4	U	0.4	U

Table 11
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
Pesticides

AKRF Sample ID		TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
Laboratory Sample ID		460-266877-3		460-266752-9		460-266826-5		460-266826-6	
Date Sampled		10/05/2022		10/03/2022		10/04/2022		10/04/2022	
Unit		µg/L		µg/L		µg/L		µg/L	
Dilution Factor		1		1		1		1	
Compound	**AWQSGV**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
Aldrin	**ND**	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.01**	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Endosulfan	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.04**	0.02	U	0.02	U	0.02	U	0.02	U
Beta Endosulfan	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
cis-Chlordane	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	**0.004**	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
Endrin	**ND**	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	**5**	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	**5**	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	**0.05**	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	**0.04**	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	**0.03**	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	**35**	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	**0.3**	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	**0.2**	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	**0.2**	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	**0.06**	0.5	U	0.5	U	0.5	U	0.5	U

Table 12
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Vapor Analytical Results
VOCs

AKRF Sample ID	SV-01_20221004	SV-01_20221004	SV-02_20221003	SV-02_20221003	SV-03_20221004	SV-04_20221003	SV-04_20221003
Laboratory Sample ID	200-65197-1	200-65197-1	200-65184-1	200-65184-1	200-65197-2	200-65184-2	200-65184-2
Date Sampled	10/04/2022	10/04/2022	10/03/2022	10/03/2022	10/04/2022	10/03/2022	10/03/2022
Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Dilution Factor	1	6.14	1	2	1	1	10
Compound	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1,2,2-Tetrachloroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.48 J	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,1,2-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,1-Dichloroethene	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR
1,2,4-Trichlorobenzene	3.7 U	NR	3.7 U	NR	3.7 U	3.7 U	NR
1,2,4-Trimethylbenzene	1.7	NR	1.8	NR	1.6	2.1	NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,2-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
1,2-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,2-Dichloropropane	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
1,2-Dichlorotetrafluoroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,3,5-Trimethylbenzene (Mesitylene)	0.33 J	NR	0.45 J	NR	0.39 J	0.49 J	NR
1,3-Butadiene	3.6	NR	1.6	NR	2.6	3.9	NR
1,3-Dichlorobenzene	1.9	NR	1.6	NR	1.5	2.2	NR
1,4-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
2,2,4-Trimethylpentane	1.2	NR	1.5	NR	3.3	1.2	NR
2-Chlorotoluene	1 U	NR	1 U	NR	1 U	1 U	NR
2-Hexanone	2 U	NR	2 U	NR	2 U	1.6 J	NR
4-Ethyltoluene	0.33 J	NR	0.54 J	NR	0.39 J	0.73 J	NR
Acetone	85	NR	NR	170 D	82	NR	130 D
Allyl Chloride (3-Chloropropene)	1.6 U	NR	1.6 U	NR	1.6 U	1.6 U	NR
Benzene	2	NR	2.2	NR	2.2	4.1	NR
Benzyl Chloride	1 UT	NR	1 U	NR	1 UT	1 U	NR
Bromodichloromethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Bromoform	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Bromomethane	0.78 U	NR	0.78 U	NR	0.78 U	0.78 U	NR
Butane	12	NR	8.1	NR	9.9	12	NR
Carbon Disulfide	4.1	NR	1.6	NR	2.3	3	NR
Carbon Tetrachloride	0.32	NR	0.4	NR	0.26	0.24	NR
Chlorobenzene	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
Chlorodifluoromethane	4	NR	8	NR	8.3	0.87 J	NR
Chloroethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Chloroform	8.6	NR	10	NR	9.5	5.9	NR
Chloromethane	0.8 J	NR	0.43 J	NR	0.41 J	0.32 J	NR
Cis-1,2-Dichloroethylene	NR	200 D	110	NR	96	22	NR
Cis-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Cyclohexane	1.1	NR	1	NR	0.65 J	1.1	NR
Cymene	3	NR	2.3	NR	1.9	2.7	NR
Dibromochloromethane	1.7 U	NR	1.7 U	NR	1.7 U	1.7 U	NR
Dichlorodifluoromethane	1.8 J	NR	0.8 J	NR	2.3 J	1.8 J	NR
Ethylbenzene	1.4	NR	4.2	NR	2.2	5.8	NR
Hexachlorobutadiene	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Isopropanol	24	NR	31	NR	24	24	NR
Isopropylbenzene (Cumene)	0.28 J	NR	0.98 U	NR	0.98 U	0.98 U	NR
M,P-Xylenes	5.3	NR	17	NR	8.5	23	NR
Methyl Ethyl Ketone (2-Butanone)	10	NR	6	NR	1.5 U	8.2	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.2 J	NR	2 U	NR	1.3 J	1 J	NR
Methyl Methacrylate	2 U	NR	2 U	NR	2 U	0.76 J	NR
Methylene Chloride	3.9	NR	0.65 J	NR	1.7 U	1.2 J	NR
Naphthalene	2.6 U	NR	2.6 U	NR	2.6 U	2.6 U	NR
N-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
N-Heptane	2.9	NR	2.4	NR	2.5	3.9	NR
N-Hexane	3.3	NR	3.7	NR	3.3	7.1	NR
N-Propylbenzene	0.26 J	NR	0.38 J	NR	0.27 J	0.53 J	NR
O-Xylene (1,2-Dimethylbenzene)	2	NR	3.8	NR	2.4	4.9	NR
Sec-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Styrene	0.41 J	NR	0.3 J	NR	0.85 U	0.42 J	NR
T-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Tert-Butyl Alcohol	14 J	NR	8.6 J	NR	36	14 J	NR
Tert-Butyl Methyl Ether	0.72 U	NR	0.72 U	NR	0.72 U	0.72 U	NR
Tetrachloroethylene (PCE)	NR	780 D	210	NR	130	NR	1,900 D
Tetrahydrofuran	15 U	NR	15 U	NR	15 U	15 U	NR
Toluene	11	NR	24	NR	6.1	29	NR
Trans-1,2-Dichloroethene	1.1	NR	1	NR	0.61 J	0.79 U	NR
Trans-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Trichloroethylene (TCE)	30	NR	34	NR	45	28	NR
Trichlorofluoromethane	1.6	NR	2	NR	1.4	1 J	NR
Vinyl Bromide	0.87 U	NR	0.87 U	NR	0.87 U	0.87 U	NR
Vinyl Chloride	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR

Table 12
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Vapor Analytical Results
VOCs

AKRF Sample ID	SV-05_20221004	SV-05_20221004
Laboratory Sample ID	200-65197-3	200-65197-3
Date Sampled	10/04/2022	10/04/2022
Unit	µg/m^3	µg/m^3
Dilution Factor	1	2
Compound	**CONC Q**	**CONC Q**
1,1,1-Trichloroethane	0.33 J	NR
1,1,2,2-Tetrachloroethane	1.4 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.56 J	NR
1,1,2-Trichloroethane	1.1 U	NR
1,1-Dichloroethane	0.81 U	NR
1,1-Dichloroethene	0.2 U	NR
1,2,4-Trichlorobenzene	3.7 U	NR
1,2,4-Trimethylbenzene	1.5	NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR
1,2-Dichlorobenzene	1.2 U	NR
1,2-Dichloroethane	0.81 U	NR
1,2-Dichloropropane	0.92 U	NR
1,2-Dichlorotetrafluoroethane	1.4 U	NR
1,3,5-Trimethylbenzene (Mesitylene)	0.38 J	NR
1,3-Butadiene	6.6	NR
1,3-Dichlorobenzene	2.6	NR
1,4-Dichlorobenzene	1.2 U	NR
2,2,4-Trimethylpentane	3.5	NR
2-Chlorotoluene	1 U	NR
2-Hexanone	2 U	NR
4-Ethyltoluene	0.39 J	NR
Acetone	87	NR
Allyl Chloride (3-Chloropropene)	1.6 U	NR
Benzene	3.9	NR
Benzyl Chloride	1 UT	NR
Bromodichloromethane	1.3 U	NR
Bromoform	2.1 U	NR
Bromomethane	0.78 U	NR
Butane	25	NR
Carbon Disulfide	5.4	NR
Carbon Tetrachloride	0.28	NR
Chlorobenzene	0.92 U	NR
Chlorodifluoromethane	2.2	NR
Chloroethane	1.3 U	NR
Chloroform	27	NR
Chloromethane	0.27 J	NR
Cis-1,2-Dichloroethylene	45	NR
Cis-1,3-Dichloropropene	0.91 U	NR
Cyclohexane	2	NR
Cymene	3.6	NR
Dibromochloromethane	1.7 U	NR
Dichlorodifluoromethane	2.3 J	NR
Ethylbenzene	2.9	NR
Hexachlorobutadiene	2.1 U	NR
Isopropanol	11 J	NR
Isopropylbenzene (Cumene)	0.39 J	NR
M,P-Xylenes	9	NR
Methyl Ethyl Ketone (2-Butanone)	11	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.7 J	NR
Methyl Methacrylate	2 U	NR
Methylene Chloride	1.7 U	NR
Naphthalene	2.6 U	NR
N-Butylbenzene	1.1 U	NR
N-Heptane	5.8	NR
N-Hexane	7	NR
N-Propylbenzene	0.28 J	NR
O-Xylene (1,2-Dimethylbenzene)	2.6	NR
Sec-Butylbenzene	1.1 U	NR
Styrene	0.85 U	NR
T-Butylbenzene	1.1 U	NR
Tert-Butyl Alcohol	28	NR
Tert-Butyl Methyl Ether	0.72 U	NR
Tetrachloroethylene (PCE)	NR	390 D
Tetrahydrofuran	15 U	NR
Toluene	5.8	NR
Trans-1,2-Dichloroethene	0.79 U	NR
Trans-1,3-Dichloropropene	0.91 U	NR
Trichloroethylene (TCE)	25	NR
Trichlorofluoromethane	3.3	NR
Vinyl Bromide	0.87 U	NR
Vinyl Chloride	0.2 U	NR

Tables 1-12
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Analytical Results
Notes

DEFINITIONS

D	:	Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.
J	:	The concentration given is an estimated value.
ND	:	The standard is a non-detectable concentration by the approved analytical method.
NR	:	Not reported.
NS	:	No standard.
P	:	Indicates a pesticide/aroclor target analyte had a percent difference greater than 25% between the two gc columns. The lower of the two results is reported.
T	:	Indicates that a quality control parameter has exceeded laboratory limits.
U	:	The analyte was not detected at the indicated concentration.
mg/kg	:	milligrams per kilogram
µg/L	:	micrograms per liter
µg/m^3	:	micrograms per cubic meter of air

STANDARDS

Part 375 Soil Cleanup Objectives	:	Soil Cleanup Objectives listed in New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations [6 New York Codes, Rules and Regulations (NYCRR) Part 375].

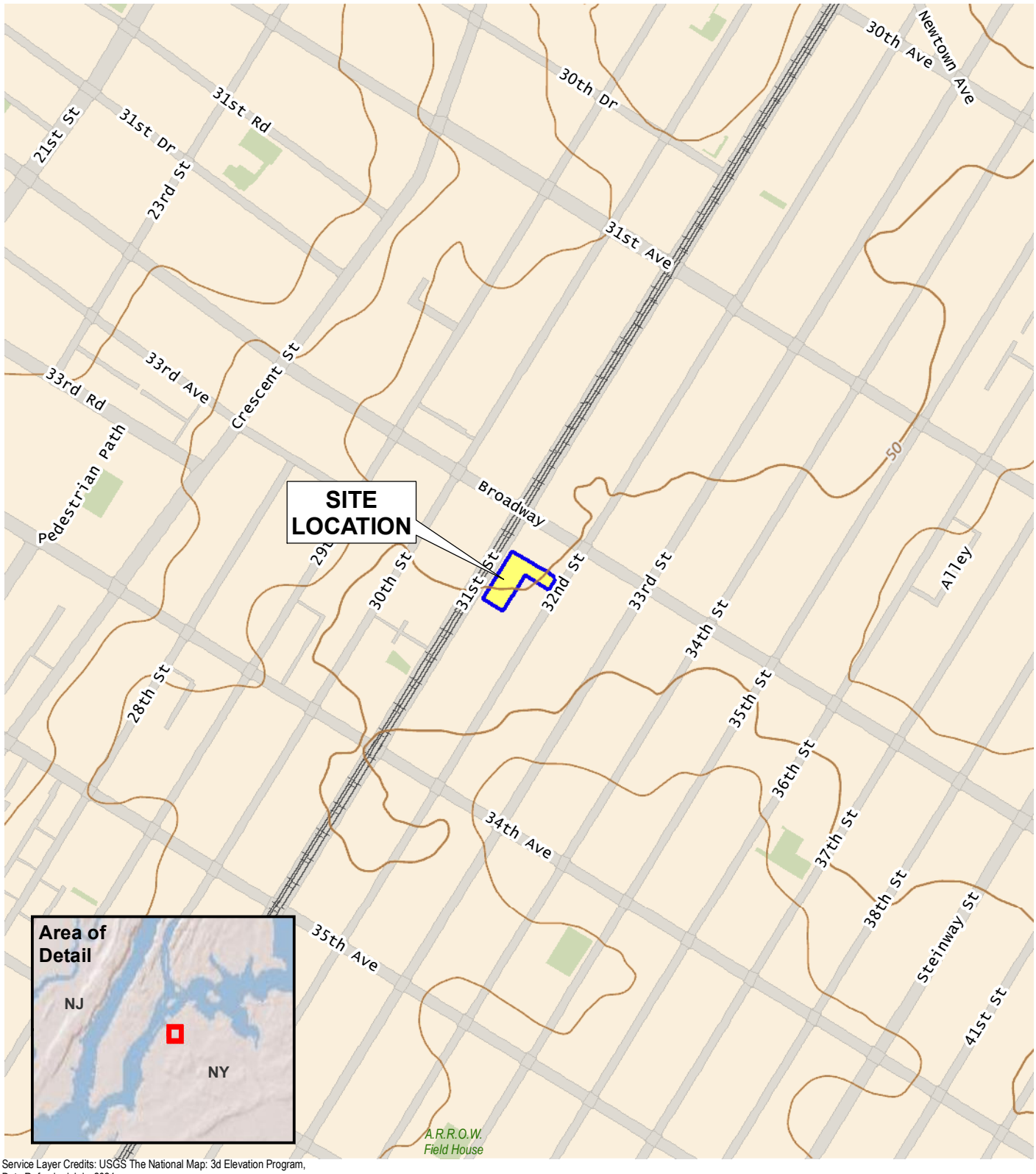
Note: Endosulfans ABS represents the detected sum of Endosulfan I, Endosulfan II, and Endosulfan Sulfate.

Exceedances of Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray shading

NYSDEC Class GA AWQSGVs	:	New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed July, 2021

0 600 1,200

SCALE IN FEET

AKRF

440 Park Avenue South, New York, NY 10016

31-07 31st Street
Queens, New York

SITE LOCATION

DATE
11/3/2022

PROJECT NO.
210124

FIGURE
1

©2022 AKRF O:\Projects\210124 - IKOS SENIOR LIVING\SAR\210124 Fig 1 Site Loc Map.mxd 11/3/2022 12:19:30 PM jszalus



LEGEND

- APPROXIMATE SITE BOUNDARY
- 25 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- PROPOSED BUILDING
- PROPOSED CELLAR
- PROPOSED CRAWLSPACE
- EXISTING MONITORING WELL LOCATION
- SOIL BORING
- SOIL BORING/SOIL VAPOR POINT
- SOIL BORING/TEMPORARY WELL
- SOIL VAPOR POINT

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database
Aerial Source:
2020 New York State ITS GIS Orthoimagery

0 40 80
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

31-07 31st Street
Queens, New York

SITE PLAN AND SAMPLE LOCATIONS

DATE
11/3/2022
PROJECT NO.
210124
FIGURE
2

©2022 AKRF O:\Projects\210124 - IKOS SENIOR LIVING\SAR\ph II\210124 Fig 2 Site Plan and Sample Locations.mxd 11/3/2022 3:25:42 PM iszalus

APPENDIX A
GEOPHYSICAL REPORT

GEOPHYSICAL INVESTIGATION REPORT

PERFORMED AT:

31-07 31st Street,
Astoria, Queens , NY

PREPARED FOR:

Adrianna Bosco
AKRF
440 Park Avenue South 7th Floor,
New York ,NY 10016
Reporting: abosco@akrf.com

PREPARED BY:

Aidan O'Sullivan
Geophysical Technician
Enviroprobe Service, Inc.
81 Marter Avenue
Mount Laurel, NJ 08054
(856) 858-8584
(800) 596-7472

October 03, 2022

1.0 INTRODUCTION

Enviroprobe Service, Inc. (Enviroprobe) is an environmental investigation services firm which provides monitoring well installation (HSA), Geoprobe (DPT) drilling services and Environmental & Engineering Geophysics (EEG) services to the environmental consulting and engineering community.

Enviroprobe conducted a subsurface geophysical investigation at the subject property within client-specified areas of concern. Due to conditions and objectives, the investigation utilized a GSSI UtilityScan HS cart-mounted Ground Penetrating Radar (GPR) unit with a 350 MHz antenna, a Fisher TW-6 metallic locator, a Radiodetection RD7000TX3 multi-frequency transmitter, and a Radiodetection RD7000PXL receiver.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 2,000 MHz) to acquire subsurface information. An EM wave is propagated downward into the ground by a transmitting antenna. Where abrupt changes in electrical properties occur in the subsurface, a portion of the energy is reflected back to the surface. This reflected wave is detected by a receiver antenna and transmitted to a control unit for real time processing and display. The penetration depth of the GSSI unit varies from several inches to tens of feet according to site-specific conditions. The penetration depth decreases with increased soil conductivity. The penetration depth is the greatest in ice, dry sands, and fine gravels. Clayey, highly saline or saturated soils, areas covered by concrete, foundry slag, or other highly conductive materials greatly reduce GPR penetration. GPR is a method that is commonly used for environmental, engineering, archaeological, and other shallow investigations.

The Fisher TW-6 metallic locator is designed to find pipes, cables and other metallic objects such as underground storage tanks (USTs). The TW-6 transmitter generates an electromagnetic field that induces electrical currents in the subsurface. These currents produce a secondary electromagnetic field that is measured by the TW-6 receiver. One surveyor can carry both the transmitter and receiver together to search for underground metallic objects, although the TW-6 response can also be affected by the electrical properties of non-metallic materials in the subsurface.

The Radiodetection (RD) transmitter and receiver are commonly used for pipe and cable locating. The multi-frequency transmitter can be directly connected, clamped, or used to induce a signal in a target line while the multi-frequency receiver is used to measure the signal from energized lines.

2.0 SCOPE OF WORK

On October 03, 2022, a geophysical technician from Enviroprobe Service Inc. was mobilized to the subject property to perform a geophysical investigation. The purpose of the investigation was to clear boring locations, detect possible anomalies and designate underground conduits/utilities in the client selected exterior portions of the subject property. The ground surface of the survey area consisted of asphalt and concrete.

3.0 SURVEY RESULTS

The survey was conducted using a cart-mounted GPR unit, a Fisher TW-6 metallic locator, and a RD unit. The RD unit was used to trace common utilities from sources in and around the survey area. The RD receiver was also used in the passive mode to search for live underground electrical power cables and other utilities emitting 60Hz electromagnetic signals. When possible, the locations of utilities were confirmed with the GPR. Designated utilities were marked on-site with spray paint using the following colors: green – sanitary sewer & storm drainage, pink – vent lines & unknown utilities (See Figure Below).



The GPR and TW-6 were used in a grid pattern over all client specified areas of the site. Based on the results of the GPR and TW-6 surveys, no metallic anomalies That were consistent with UST's, vent piping, or product piping were detected on site (See Figure above)

4.0 LIMITATIONS

The client-selected areas contained obstructions including materials, Reinforced concrete and vehicles. These objects prevented a thorough investigation of the spaces beneath and immediately adjacent to them.

Due to surface conditions and subsurface content, the GPR signal penetration was estimated at less than 4 ft in the majority of the survey area. This penetration was reduced in areas of concrete cover.

The TW-6 survey was kept up to 6 feet away from above ground objects containing metals depending on the sizes, shapes and positions of the metal objects. The TW-6 survey was not effective in areas with reinforced concrete.

Due to the dielectric properties of the subsurface, clay, plastic polymer, and fiberglass utilities may not have been detected.

All field services were conducted in compliance with the industry standard of care guidelines found in ASCE 38-02 (Level B).

5.0 WARRANTIES

The field observations and measurements reported herein are considered sufficient in detail and scope for this project. Enviroprobe Service, Inc. warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental engineering methods. There is a possibility that conditions may exist which could not be identified within the scope of this project and were not apparent during the site activities performed for this project.

Enviroprobe represents that the services were performed in a manner consistent with that level of care and skill ordinarily exercised by environmental consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

Enviroprobe Service, Inc. believes that the information provided in this report is reliable. However, Enviroprobe cannot warrant or guarantee that the information provided by others is complete or accurate. No other warranties or guarantees are implied or expressed.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling around underground structures and utilities since GPR data can only be used for estimation purposes and GPR data is subject to

misinterpretation. Enviroprobe can not guarantee that utilities, post-tension cables, and/or rebar will not be incurred during drilling, cutting, coring, or excavating activities.

This report was prepared pursuant to the contract Enviroprobe has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Enviroprobe and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between Enviroprobe and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Enviroprobe.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Enviroprobe contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

APPENDIX B
PHOTOGRAPHIC LOG



Photograph 1. Locating subsurface utilities during the geophysical survey.



Photograph 2. Geoprobe soil boring advancement at SB-02.



Photograph 3. Installation of SV-02 and collecting a groundwater sample from TW-02.



Photograph 4. Soil cores collected from SB-01.

APPENDIX C
FIELD LOGS

SOIL BORING LOG

31-07 31st Street
Astoria, NY
AKRF Project Number: 210124

Soil Boring ID: **SB-01**
Sheet 1 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	60°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 7:30 **Finish Time:** 8:00
Date: 10/05/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	37	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-01_0-2_20221005
2							
3		Bottom 34": Brown coarse SAND, trace fine Gravel (FILL).	ND	DRY	ND	ND	
4							
5							
6	42	Top 15": Brown coarse SAND, trace fine Gravel (FILL).	ND	DRY	ND	ND	
7		Next 6": Dark brown fine SAND, trace fine Gravel (FILL).	ND	DRY	ND	ND	
8							
9		Bottom 21": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
10							
11	36	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16	43	Top 10": Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18		Bottom 33": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-01 screened from 30 to 40 feet. Groundwater measured at approximately 36.61 feet in TW-01.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: SB-01 Sheet 2 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	60°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 7:30 **Finish Time:** 8:00
Date: 10/05/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21	46	Top 20": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
22		Next 7": Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
23		Bottom 19": Light brown coarse fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
24							
25							
26	54	Light brown coarse fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
27							
28							
29							
30							
31	52	Brown coarse SAND, trace fine Gravel.	ND	Wet @ 33"	ND	ND	SB-01_31-33_20221005
32							
33							
34							
35							
36	38	Brown coarse SAND, trace fine Gravel.	ND	WET	ND	ND	
37							
38							
39							
40							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-01 screened from 30 to 40 feet. Groundwater measured at approximately 36.61 feet in TW-01.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: SB-02 Sheet 1 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 8:00 **Finish Time:** 9:00

Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	34	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-02_0-2_20221003
2		Next 7": Dark Brown SAND, little fine Gravel, trace Silt, Brick (FILL).	ND	DRY	ND	ND	
3		Bottom 24": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
4							
5							
6	44	Top 18": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7							
8		Bottom 26": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
9							
10							
11	56	Top 44": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
12							
13							
14		Bottom 14": Brown fine SAND.	ND	DRY	ND	ND	
15							
16	60	Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-02 screened from 30 to 40 feet. Groundwater measured at approximately 30.31 feet in TW-02.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: SB-02 Sheet 2 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 8:00 **Finish Time:** 9:00
Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	58	Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	51	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
31 32 33 34 35	46	Brown coarse SAND, trace fine Gravel.	ND	Wet @ 33"	ND	ND	SB-02_31-33_2022 1003
36 37 38 39 40	58	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-02 screened from 30 to 40 feet. Groundwater measured at approximately 30.31 feet in TW-02.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 1 of 2

SB-03

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 13:15 **Finish Time:** 14:10

Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	44	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-03_0-2_20221003
2		Next 30": Dark Brown fine SAND, little fine Gravel, trace Brick (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 9": Brown coarse SAND (FILL).	ND	DRY	ND	ND	
5							
6	37	Top 7": Brown coarse SAND (FILL).	ND	DRY	ND	ND	
7		Next 9": Dark brown fine SAND, little fine Gravel (FILL).	ND	DRY	ND	ND	
8							
9		Next 19": Brown coarse SAND.	ND	DRY	ND	ND	
10							
11	42	Top 19": Brown coarse SAND.	ND	DRY	ND	ND	
12							
13		Bottom 23": Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
14							
15							
16	41	Top 16": Brown SAND, trace fine Gravel.	ND	DRY	ND	ND	
17		Bottom 29": Brown coarse SAND.	ND	DRY	ND	ND	
18							
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for Installed 1" temporary well TW-03 screened from 30 to 40 feet. Groundwater measured at approximately 33.8 feet in TW-03.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124		Soil Boring ID Sheet 2 of 2	SB-03
AKRF 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822 DT DPP	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 13:15	Finish Time: 14:10
	Driller:	AARCO		
	Weather:	50°F, Rain	Date: 10/03/2022	
	Logged By:	TG, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	41	Brown coarse SAND.	ND	DRY	ND	ND	
26 27 28 29 30	36	Brown coarse SAND.	ND	DRY	ND	ND	
31 32 33 34 35	39	Brown fine SAND.	ND	Wet @ 33"	ND	ND	SB-03_31-33_2022
36 37 38 39 40	60	Brown fine SAND.	ND	WET	ND	ND	

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for Installed 1" temporary well TW-03 screened from 30 to 40 feet. Groundwater measured at approximately 33.8 feet in TW-03.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124		Soil Boring ID Sheet 1 of 2	SB-04
AKRF 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822 DT DPP	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 11:00	Finish Time: 11:50
	Driller:	AARCO		
	Weather:	50°F, Rain	Date: 10/03/2022	
	Logged By:	TG, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	33	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-04_0-2_20221003
2		Next 10": Dark brown fine SAND, little fine Gravel, trace silt (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 20": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
5							
6	28	Top 6": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7							
8		Bottom 22": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
9							
10							
11	29	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16	28	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-04 screened from 35 to 45 feet. Groundwater measured at approximately 36.43 feet in TW-04.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 2 of 2	SB-04

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 11:00 **Finish Time:** 11:50
Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	41	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	0	No recovery	N/A	N/A	N/A	N/A	
31 32 33 34 35	55	Top 26": Brown coarse SAND, some fine Gravel. Bottom 29": Light brown coarse SAND.	ND ND	DRY Wet @ 34'	ND ND	ND ND	SB-04_32-34_20221003
36 37 38 39 40	36	Brown coarse SAND, some fine Gravel.	ND	WET	ND	ND	
41 42 43 44 45	44	Brown coarse SAND, some fine Gravel.	ND	WET	ND	ND	

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-04 screened from 35 to 45 feet. Groundwater measured at approximately 36.43 feet in TW-04.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 1 of 2

SB-05

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 10:55 **Finish Time:** 11:25

Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	34	Top 6": ASPHALT.	ND	DRY	ND	ND	SB-05_0-2_20221004
2		Next 14": Dark brown fine SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 14": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
5							
6	32	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
7							
8							
9							
10							
11	48	Top 22": Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13		Bottom 26": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
14							
15							
16	60	Top 8"; Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19		Bottom 52": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
20							

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 2 of 2

SB-05

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 10:55 **Finish Time:** 11:25

Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	25	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28	44	Top 30": Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
29 30		Bottom 14": Light brown fine SAND, some fine Gravel	ND	DRY	ND	ND	SB-05_29-31_20221004
31 32 33 34 35	40	Top 18": Brown coarse SAND, trace fine Gravel. Bottom 22": Light brown coarse SAND, trace fine Gravel.	ND ND	DRY Wet @ 31'	ND ND	ND ND	
36 37 38 39 40	31	Brown coarse SAND, trace fine Gravel.	ND	WET	ND	ND	

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street
Astoria, NY
AKRF Project Number: 210124

Soil Boring ID
Sheet 1 of 2

SB-06

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 8:55 **Finish Time:** 9:30
Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	40	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-06_0-2_20221004
2		Next 14": Dark brown fine SAND, little fine Gravel, trace Brick (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 23": Brown coarse SAND, little fine Gravel (FILL).	ND	DRY	ND	ND	
5							
6	42	Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7							
8							
9							
10							
11	39	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16	36	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: **SB-06** Sheet 2 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 8:55 **Finish Time:** 9:30

Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	60	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	31	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	SB-06_29-31_20221004
31 32 33 34 35	30	Brown coarse SAND, trace fine Gravel	ND	Wet @ 31'	ND	ND	
36 37 38 39 40	48	Top 21": Brown coarse SAND, trace fine Gravel. Bottom 27": Brown coarse SAND.	ND ND	WET WET	ND ND	ND ND	

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street
Astoria, NY
AKRF Project Number: 210124

Soil Boring ID
Sheet 1 of 2

SB-07

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 9:45 **Finish Time:** 10:30
Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	40	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-07_0-2_20221003
2		Next 11": Dark brown SAND, little fine Gravel, trace Silt, Brick (FILL).	ND	DRY	ND	ND	
3		Next 7": Brown SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
4							
5		Bottom 19": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
6	36	Top 12": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7		Bottom 24": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
8							
9							
10							
11	40	Top 15": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
12		Bottom 25": Brown fine SAND.	ND	DRY	ND	ND	
13							
14							
15							
16	38	Brown fine SAND.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 34 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124		Soil Boring ID Sheet 2 of 2	SB-07
AKRF 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822 DT DPP	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 9:45	Finish Time: 10:30
	Driller:	AARCO		
	Weather:	50°F, Rain	Date: 10/03/2022	
	Logged By:	TG, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	47	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	25	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
31 32 33 34 35	52	Brown coarse SAND, trace fine Gravel.	ND	Wet @ 34'	ND	ND	SB-07_32-34_20221003
36 37 38 39 40	52	Brown coarse SAND, trace fine Gravel.	ND	WET	ND	ND	

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 34 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/4/2022	**Weather:**	40 °F, Rain

Sample Setup

Vapor Point Depth:	168	Inches	**Total Time of Purge:**	10min
Purging Pump:	Gilair Plus		**Purge Volume:**	2L
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND ppm
			Helium Concentration:	0 %

Sample Identification

Soil Vapor Point ID:	**SV-01**	**SUMMA® Canister ID:**	**5630**
Flow Controller ID:	**10655**	**Soil Vapor Sample ID:**	**SV-01_20221004**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	12:30	-30	ND	Open air parking lot / rain
Time Halfway:	13:30	-25	ND	Issue with regulator. AKRF notified laboratory for guidance.
Time Stopped:	15:30	-14	ND	Stopped @ -14 in/Hg as per instruction from lab project manager

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-01 20220713 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/3/2022	**Weather:**	50 °F, Rain

Sample Setup

Vapor Point Depth:	168	Inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-02**	**SUMMA® Canister ID:**	**6266**
Flow Controller ID:	**11564**	**Soil Vapor Sample ID:**	**SV-02_20221003**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	12:00	-30	ND	Open air parking / adjacent to elevated subway station / rain
Time Halfway:	13:00	-9	ND	Premature vacuum
Time Stopped:	13:10	-5	ND	Premature vacuum

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-02 20221003 collected in a C-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/4/2022	**Weather:**	40 °F, Rain

Sample Setup

Vapor Point Depth:	168	Inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-03**	**SUMMA® Canister ID:**	**3642**
Flow Controller ID:	**10652**	**Soil Vapor Sample ID:**	**SV-03_20221004**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:00	-30	ND	Open air parking lot / rain
Time Halfway:	10:00	-20	ND	Open air parking lot / rain
Time Stopped:	13:50	-5	ND	Open air parking lot / rain

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-03 20221004 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/3/2022	**Weather:**	50 °F, Rain

Sample Setup

Vapor Point Depth:	168	inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-04**	**SUMMA® Canister ID:**	**5058**
Flow Controller ID:	**7051**	**Soil Vapor Sample ID:**	**SV-04_20221003**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	13:30	-30	ND	Open air parking lot / rain
Time Halfway:	14:30	-19	ND	Open air parking lot / rain
Time Stopped:	15:30	-7	ND	Open air parking lot / rain

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-04 20221003 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/4/2022	**Weather:**	40 °F, Rain

Sample Setup

Vapor Point Depth:	168	inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-06**	**SUMMA® Canister ID:**	**6309**
Flow Controller ID:	**3979**	**Soil Vapor Sample ID:**	**SV-05_20221004**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	12:00	-30	ND	Open air parking lot / rain
Time Halfway:	13:00	-19	ND	Open air parking lot / rain
Time Stopped:	15:30	-8	ND	Open air parking lot / rain

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-05_20221004 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

APPENDIX D
LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-65184-1
Client Project/Site: Ikos Senior Living

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco

Melissa Haas

Authorized for release by:
10/11/2022 9:41:12 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

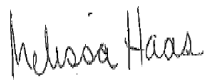
Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/11/2022 9:41:12 AM

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Definitions/Glossary

Client: AKRF Inc
Job ID: 200-65184-1
Project/Site: Ikos Senior Living

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 200-65184-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Ikos Senior Living

Report Number: 200-65184-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/4/2022 1:30 PM and 10/5/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANICS (AMBIENT AIR)

Samples SV-02_20221003 (200-65184-1), SV-01_20221004 (200-65197-1), SV-04_20221003 (200-65184-2), SV-03_20221004 (200-65197-2) and SV-05_20221004 (200-65197-3) were analyzed for Volatile Organics (Ambient Air) in accordance with EPA Method TO15. The samples were analyzed on 10/06/2022 and 10/07/2022.

The continuing calibration verification (CCV) associated with batch 200-184402 recovered above the upper control limit for Benzyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SV-01_20221004, SV-03_20221004 and SV-05_20221004.

The laboratory control sample (LCS) for analytical batch 200-184402 recovered outside control limits for the following analytes: Benzyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Client Sample ID: SV-02_20221003

Lab Sample ID: 200-65184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.80	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	8.0		1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.43	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	8.1		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	1.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.0		1.1	0.29	ug/m3	1		TO-15	Total/NA
Acetone	160	E	12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	31		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.6		1.6	0.40	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.65	J	1.7	0.59	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	8.6	J	15	3.6	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	1.0		0.79	0.35	ug/m3	1		TO-15	Total/NA
n-Hexane	3.7		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	6.0		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	110		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	10		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.0		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.5		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	2.2		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	2.4		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	34		0.20	0.13	ug/m3	1		TO-15	Total/NA
Toluene	24		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	210		1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.2		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	17		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	3.8		0.87	0.41	ug/m3	1		TO-15	Total/NA
Styrene	0.30	J	0.85	0.14	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.38	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.54	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.45	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.8		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	2.3		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.6		1.2	0.54	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	2.0	J D	4.9	1.1	ug/m3	2		TO-15	Total/NA
Chlorodifluoromethane - DL	8.0	D	3.5	0.78	ug/m3	2		TO-15	Total/NA
n-Butane - DL	13	D	2.4	0.90	ug/m3	2		TO-15	Total/NA
1,3-Butadiene - DL	1.6	D	0.88	0.17	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane - DL	2.0	J D	2.2	0.58	ug/m3	2		TO-15	Total/NA
Acetone - DL	170	D	24	9.5	ug/m3	2		TO-15	Total/NA
Isopropyl alcohol - DL	31	D	25	4.8	ug/m3	2		TO-15	Total/NA
Carbon disulfide - DL	1.6	J D	3.1	0.81	ug/m3	2		TO-15	Total/NA
tert-Butyl alcohol - DL	10	J D	30	7.3	ug/m3	2		TO-15	Total/NA
trans-1,2-Dichloroethene - DL	1.0	J D	1.6	0.70	ug/m3	2		TO-15	Total/NA
n-Hexane - DL	3.8	D	3.5	1.6	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	6.1	D	2.9	1.0	ug/m3	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	110	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Chloroform - DL	10	D	2.0	0.45	ug/m3	2		TO-15	Total/NA
Cyclohexane - DL	0.96	J D	1.4	0.24	ug/m3	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	1.4	J D	1.9	0.33	ug/m3	2		TO-15	Total/NA
Benzene - DL	2.2	D	1.3	0.47	ug/m3	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-02_20221003 (Continued)

Lab Sample ID: 200-65184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Heptane - DL	2.3	D	1.6	0.48	ug/m3	2		TO-15	Total/NA
Trichloroethene - DL	33	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Toluene - DL	24	D	1.5	0.70	ug/m3	2		TO-15	Total/NA
Tetrachloroethene - DL	220	D	2.7	0.37	ug/m3	2		TO-15	Total/NA
Ethylbenzene - DL	4.3	D	1.7	0.87	ug/m3	2		TO-15	Total/NA
m,p-Xylene - DL	16	D	4.3	1.5	ug/m3	2		TO-15	Total/NA
o-Xylene - DL	3.9	D	1.7	0.82	ug/m3	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	1.8	J D	2.0	0.46	ug/m3	2		TO-15	Total/NA
4-Isopropyltoluene - DL	2.4	D	2.2	0.43	ug/m3	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	1.6	J D	2.4	1.1	ug/m3	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.16	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.21	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	3.4		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.70		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.36		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Acetone	69	E	5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	13		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.50		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.19	J	0.50	0.17	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	2.8	J	5.0	1.2	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.26		0.20	0.088	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.1		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	2.0		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	27		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	2.1		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.29		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.33		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	0.70		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.59		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	6.3		0.037	0.024	ppb v/v	1		TO-15	Total/NA
Toluene	6.4		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	32		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.96		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.9		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.87		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Styrene	0.070	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.076	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.11	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.092	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.36		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.42		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.27		0.20	0.089	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	0.41	J D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
Chlorodifluoromethane - DL	2.3	D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
n-Butane - DL	5.3	D	1.0	0.38	ppb v/v	2		TO-15	Total/NA
1,3-Butadiene - DL	0.72	D	0.40	0.076	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane - DL	0.35	J D	0.40	0.10	ppb v/v	2		TO-15	Total/NA
Acetone - DL	73	D	10	4.0	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-02_20221003 (Continued)

Lab Sample ID: 200-65184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol - DL	12	D	10	2.0	ppb v/v	2		TO-15	Total/NA
Carbon disulfide - DL	0.52	J D	1.0	0.26	ppb v/v	2		TO-15	Total/NA
tert-Butyl alcohol - DL	3.4	J D	10	2.4	ppb v/v	2		TO-15	Total/NA
trans-1,2-Dichloroethene - DL	0.26	J D	0.40	0.18	ppb v/v	2		TO-15	Total/NA
n-Hexane - DL	1.1	D	1.0	0.46	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	2.1	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	27	D	0.10	0.066	ppb v/v	2		TO-15	Total/NA
Chloroform - DL	2.1	D	0.40	0.092	ppb v/v	2		TO-15	Total/NA
Cyclohexane - DL	0.28	J D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	0.31	J D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
Benzene - DL	0.69	D	0.40	0.15	ppb v/v	2		TO-15	Total/NA
n-Heptane - DL	0.56	D	0.40	0.12	ppb v/v	2		TO-15	Total/NA
Trichloroethene - DL	6.1	D	0.074	0.048	ppb v/v	2		TO-15	Total/NA
Toluene - DL	6.5	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene - DL	33	D	0.40	0.054	ppb v/v	2		TO-15	Total/NA
Ethylbenzene - DL	0.98	D	0.40	0.20	ppb v/v	2		TO-15	Total/NA
m,p-Xylene - DL	3.7	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
o-Xylene - DL	0.91	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	0.36	J D	0.40	0.094	ppb v/v	2		TO-15	Total/NA
4-Isopropyltoluene - DL	0.45	D	0.40	0.078	ppb v/v	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	0.27	J D	0.40	0.18	ppb v/v	2		TO-15	Total/NA

Client Sample ID: SV-04_20221003

Lab Sample ID: 200-65184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.8	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.87	J	1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.32	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	12		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	3.9		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.0	J	1.1	0.29	ug/m3	1		TO-15	Total/NA
Acetone	160	E	12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	24		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	3.0		1.6	0.40	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.2	J	1.7	0.59	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	14	J	15	3.6	ug/m3	1		TO-15	Total/NA
n-Hexane	7.1		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	8.2		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	22		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	5.9		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.1		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.24		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.2		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	4.1		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	3.9		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	28		0.20	0.13	ug/m3	1		TO-15	Total/NA
Methyl methacrylate	0.76	J	2.0	0.66	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	29		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1400	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	1.6	J	2.0	0.82	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-04_20221003 (Continued)

Lab Sample ID: 200-65184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5.8		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	23		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	4.9		0.87	0.41	ug/m3	1		TO-15	Total/NA
Styrene	0.42	J	0.85	0.14	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.53	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.73	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.49	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.1		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	2.7		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	2.2		1.2	0.54	ug/m3	1		TO-15	Total/NA
n-Butane - DL	11	J D	12	4.5	ug/m3	10		TO-15	Total/NA
1,3-Butadiene - DL	2.7	J D	4.4	0.84	ug/m3	10		TO-15	Total/NA
Acetone - DL	130	D	120	48	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	16	D	2.0	1.3	ug/m3	10		TO-15	Total/NA
Chloroform - DL	4.4	J D	9.8	2.2	ug/m3	10		TO-15	Total/NA
Benzene - DL	4.1	J D	6.4	2.4	ug/m3	10		TO-15	Total/NA
n-Heptane - DL	3.0	J D	8.2	2.4	ug/m3	10		TO-15	Total/NA
Trichloroethene - DL	23	D	2.0	1.3	ug/m3	10		TO-15	Total/NA
Toluene - DL	24	D	7.5	3.5	ug/m3	10		TO-15	Total/NA
Tetrachloroethene - DL	1900	D	14	1.8	ug/m3	10		TO-15	Total/NA
Ethylbenzene - DL	6.1	J D	8.7	4.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene - DL	18	J D	22	7.4	ug/m3	10		TO-15	Total/NA
o-Xylene - DL	5.4	J D	8.7	4.1	ug/m3	10		TO-15	Total/NA
4-Isopropyltoluene - DL	2.1	J D	11	2.1	ug/m3	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.35	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.24	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.16	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	5.0		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	1.8		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.18	J	0.20	0.052	ppb v/v	1		TO-15	Total/NA
Acetone	69	E	5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	9.9		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.96		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.35	J	0.50	0.17	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	4.5	J	5.0	1.2	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.0		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	2.8		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	5.5		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	1.2		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.31		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.038		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.26		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	1.3		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.95		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	5.2		0.037	0.024	ppb v/v	1		TO-15	Total/NA
Methyl methacrylate	0.18	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.25	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	7.6		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	200	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-04_20221003 (Continued) — Lab Sample ID: 200-65184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Butyl Ketone (2-Hexanone)	0.38	J	0.50	0.20	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.3		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	5.4		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.1		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Styrene	0.10	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.11	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.15	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.099	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.42		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.49		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.37		0.20	0.089	ppb v/v	1		TO-15	Total/NA
n-Butane - DL	4.6	J D	5.0	1.9	ppb v/v	10		TO-15	Total/NA
1,3-Butadiene - DL	1.2	J D	2.0	0.38	ppb v/v	10		TO-15	Total/NA
Acetone - DL	53	D	50	20	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	4.2	D	0.50	0.33	ppb v/v	10		TO-15	Total/NA
Chloroform - DL	0.90	J D	2.0	0.46	ppb v/v	10		TO-15	Total/NA
Benzene - DL	1.3	J D	2.0	0.74	ppb v/v	10		TO-15	Total/NA
n-Heptane - DL	0.72	J D	2.0	0.59	ppb v/v	10		TO-15	Total/NA
Trichloroethene - DL	4.3	D	0.37	0.24	ppb v/v	10		TO-15	Total/NA
Toluene - DL	6.3	D	2.0	0.93	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene - DL	280	D	2.0	0.27	ppb v/v	10		TO-15	Total/NA
Ethylbenzene - DL	1.4	J D	2.0	1.0	ppb v/v	10		TO-15	Total/NA
m,p-Xylene - DL	4.1	J D	5.0	1.7	ppb v/v	10		TO-15	Total/NA
o-Xylene - DL	1.3	J D	2.0	0.94	ppb v/v	10		TO-15	Total/NA
4-Isopropyltoluene - DL	0.38	J D	2.0	0.39	ppb v/v	10		TO-15	Total/NA

Client Sample ID: SV-01_20221004 — Lab Sample ID: 200-65197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.8	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	4.0		1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.80	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	12		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	3.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.29	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.48	J	1.5	0.42	ug/m3	1		TO-15	Total/NA
Acetone	85		12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	24		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.1		1.6	0.40	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.9		1.7	0.59	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	14	J	15	3.6	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	1.1		0.79	0.35	ug/m3	1		TO-15	Total/NA
n-Hexane	3.3		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	10		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	180	E	0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	8.6		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.1		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.32		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.2		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	2.0		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	2.9		0.82	0.24	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-01_20221004 (Continued)

Lab Sample ID: 200-65197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	30		0.20	0.13	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.2	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	11		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	730	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.4		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	5.3		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	2.0		0.87	0.41	ug/m3	1		TO-15	Total/NA
Styrene	0.41	J	0.85	0.14	ug/m3	1		TO-15	Total/NA
Cumene	0.28	J	0.98	0.18	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.26	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.33	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.33	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.7		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	3.0		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.9		1.2	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane - DL	4.6	J D	11	2.4	ug/m3	6.14		TO-15	Total/NA
n-Butane - DL	13	D	7.3	2.8	ug/m3	6.14		TO-15	Total/NA
1,3-Butadiene - DL	4.2	D	2.7	0.52	ug/m3	6.14		TO-15	Total/NA
Trichlorofluoromethane - DL	1.9	J D	6.9	1.8	ug/m3	6.14		TO-15	Total/NA
Acetone - DL	95	D	73	29	ug/m3	6.14		TO-15	Total/NA
Isopropyl alcohol - DL	28	J D	75	15	ug/m3	6.14		TO-15	Total/NA
Carbon disulfide - DL	4.5	J D	9.6	2.5	ug/m3	6.14		TO-15	Total/NA
Methylene Chloride - DL	4.9	J D	11	3.6	ug/m3	6.14		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	12	D	9.1	3.1	ug/m3	6.14		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	200	D	1.2	0.80	ug/m3	6.14		TO-15	Total/NA
Chloroform - DL	9.5	D	6.0	1.4	ug/m3	6.14		TO-15	Total/NA
Cyclohexane - DL	1.2	J D	4.2	0.74	ug/m3	6.14		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	1.3	J D	5.7	1.0	ug/m3	6.14		TO-15	Total/NA
Benzene - DL	2.2	J D	3.9	1.5	ug/m3	6.14		TO-15	Total/NA
n-Heptane - DL	3.2	J D	5.0	1.5	ug/m3	6.14		TO-15	Total/NA
Trichloroethene - DL	31	D	1.2	0.79	ug/m3	6.14		TO-15	Total/NA
Toluene - DL	11	D	4.6	2.2	ug/m3	6.14		TO-15	Total/NA
Tetrachloroethene - DL	780	D	8.3	1.1	ug/m3	6.14		TO-15	Total/NA
m,p-Xylene - DL	5.1	J D	13	4.5	ug/m3	6.14		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	1.4	J D	6.0	1.4	ug/m3	6.14		TO-15	Total/NA
4-Isopropyltoluene - DL	2.9	J D	6.7	1.3	ug/m3	6.14		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.37	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	1.1		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.39	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	5.1		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	1.6		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.063	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA
Acetone	36		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	10		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.3		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.1		0.50	0.17	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	4.6	J	5.0	1.2	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.27		0.20	0.088	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-01_20221004 (Continued)

Lab Sample ID: 200-65197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	0.93		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	3.6		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	45	E	0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	1.8		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.31		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.051		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.25		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	0.61		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.70		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	5.5		0.037	0.024	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.29	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	3.0		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	110	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.32		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.2		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.47		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Styrene	0.097	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Cumene	0.057	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.053	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.067	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.068	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.36		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.54		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.32		0.20	0.089	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane - DL	1.3	J D	3.1	0.68	ppb v/v	6.14		TO-15	Total/NA
n-Butane - DL	5.3	D	3.1	1.2	ppb v/v	6.14		TO-15	Total/NA
1,3-Butadiene - DL	1.9	D	1.2	0.23	ppb v/v	6.14		TO-15	Total/NA
Trichlorofluoromethane - DL	0.34	J D	1.2	0.32	ppb v/v	6.14		TO-15	Total/NA
Acetone - DL	40	D	31	12	ppb v/v	6.14		TO-15	Total/NA
Isopropyl alcohol - DL	11	J D	31	6.0	ppb v/v	6.14		TO-15	Total/NA
Carbon disulfide - DL	1.5	J D	3.1	0.80	ppb v/v	6.14		TO-15	Total/NA
Methylene Chloride - DL	1.4	J D	3.1	1.0	ppb v/v	6.14		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	4.0	D	3.1	1.0	ppb v/v	6.14		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	50	D	0.31	0.20	ppb v/v	6.14		TO-15	Total/NA
Chloroform - DL	1.9	D	1.2	0.28	ppb v/v	6.14		TO-15	Total/NA
Cyclohexane - DL	0.34	J D	1.2	0.21	ppb v/v	6.14		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	0.27	J D	1.2	0.21	ppb v/v	6.14		TO-15	Total/NA
Benzene - DL	0.69	J D	1.2	0.45	ppb v/v	6.14		TO-15	Total/NA
n-Heptane - DL	0.78	J D	1.2	0.36	ppb v/v	6.14		TO-15	Total/NA
Trichloroethene - DL	5.7	D	0.23	0.15	ppb v/v	6.14		TO-15	Total/NA
Toluene - DL	2.9	D	1.2	0.57	ppb v/v	6.14		TO-15	Total/NA
Tetrachloroethene - DL	120	D	1.2	0.17	ppb v/v	6.14		TO-15	Total/NA
m,p-Xylene - DL	1.2	J D	3.1	1.0	ppb v/v	6.14		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	0.29	J D	1.2	0.29	ppb v/v	6.14		TO-15	Total/NA
4-Isopropyltoluene - DL	0.53	J D	1.2	0.24	ppb v/v	6.14		TO-15	Total/NA

Client Sample ID: SV-03_20221004

Lab Sample ID: 200-65197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	8.3		1.8	0.39	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-03_20221004 (Continued)

Lab Sample ID: 200-65197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.41	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	9.9		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	2.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.29	ug/m3	1		TO-15	Total/NA
Acetone	82		12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	24		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	2.3		1.6	0.40	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	36		15	3.6	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.61	J	0.79	0.35	ug/m3	1		TO-15	Total/NA
n-Hexane	3.3		1.8	0.81	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	96		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	9.5		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.65	J	0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.26		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	3.3		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	2.2		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	2.5		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	45		0.20	0.13	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.3	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	6.1		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	130		1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.2		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	8.5		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	2.4		0.87	0.41	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.27	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.39	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.6		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	1.9		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.5		1.2	0.54	ug/m3	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.46	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.20	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	4.2		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	1.2		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Acetone	34		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	9.6		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.75		0.50	0.13	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	12		5.0	1.2	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.15	J	0.20	0.088	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.93		0.50	0.23	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	24		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	2.0		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.19	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.042		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.71		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	0.69		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.61		0.20	0.059	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-03_20221004 (Continued) — Lab Sample ID: 200-65197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	8.4		0.037	0.024	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.31	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	19		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.51		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.9		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.56		0.20	0.094	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.054	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.32		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.35		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.25		0.20	0.089	ppb v/v	1		TO-15	Total/NA

Client Sample ID: SV-05_20221004 — Lab Sample ID: 200-65197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	2.2		1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.27	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	25		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	6.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	3.3		1.1	0.29	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.56	J	1.5	0.42	ug/m3	1		TO-15	Total/NA
Acetone	87		12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	11	J	12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	5.4		1.6	0.40	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	28		15	3.6	ug/m3	1		TO-15	Total/NA
n-Hexane	7.0		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	11		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	45		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	27		0.98	0.22	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.33	J	1.1	0.21	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.0		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.28		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	3.5		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	3.9		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	5.8		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	25		0.20	0.13	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.7	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	5.8		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	380	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.9		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	9.0		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	2.6		0.87	0.41	ug/m3	1		TO-15	Total/NA
Cumene	0.39	J	0.98	0.18	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.28	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.38	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.5		0.98	0.23	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-05_20221004 (Continued)

Lab Sample ID: 200-65197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Isopropyltoluene	3.6		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	2.6		1.2	0.54	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	2.4	J D	4.9	1.1	ug/m3	2		TO-15	Total/NA
Chlorodifluoromethane - DL	2.3	J D	3.5	0.78	ug/m3	2		TO-15	Total/NA
n-Butane - DL	26	D	2.4	0.90	ug/m3	2		TO-15	Total/NA
1,3-Butadiene - DL	7.0	D	0.88	0.17	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane - DL	3.4	D	2.2	0.58	ug/m3	2		TO-15	Total/NA
Acetone - DL	87	D	24	9.5	ug/m3	2		TO-15	Total/NA
Isopropyl alcohol - DL	10	J D	25	4.8	ug/m3	2		TO-15	Total/NA
Carbon disulfide - DL	5.4	D	3.1	0.81	ug/m3	2		TO-15	Total/NA
tert-Butyl alcohol - DL	28	J D	30	7.3	ug/m3	2		TO-15	Total/NA
n-Hexane - DL	7.0	D	3.5	1.6	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	11	D	2.9	1.0	ug/m3	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	45	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Chloroform - DL	27	D	2.0	0.45	ug/m3	2		TO-15	Total/NA
Cyclohexane - DL	2.0	D	1.4	0.24	ug/m3	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	3.5	D	1.9	0.33	ug/m3	2		TO-15	Total/NA
Benzene - DL	4.0	D	1.3	0.47	ug/m3	2		TO-15	Total/NA
n-Heptane - DL	5.7	D	1.6	0.48	ug/m3	2		TO-15	Total/NA
Trichloroethene - DL	25	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Toluene - DL	5.8	D	1.5	0.70	ug/m3	2		TO-15	Total/NA
Tetrachloroethene - DL	390	D	2.7	0.37	ug/m3	2		TO-15	Total/NA
Ethylbenzene - DL	2.8	D	1.7	0.87	ug/m3	2		TO-15	Total/NA
m,p-Xylene - DL	8.6	D	4.3	1.5	ug/m3	2		TO-15	Total/NA
o-Xylene - DL	2.6	D	1.7	0.82	ug/m3	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	1.4	J D	2.0	0.46	ug/m3	2		TO-15	Total/NA
4-Isopropyltoluene - DL	3.5	D	2.2	0.43	ug/m3	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	2.6	D	2.4	1.1	ug/m3	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.47	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.62		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.13	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	11		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	3.0		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.60		0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.074	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA
Acetone	36		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.3	J	5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.7		0.50	0.13	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	9.4		5.0	1.2	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.0		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	3.9		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	11		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	5.5		0.20	0.046	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.061	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.59		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.044		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.75		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	1.2		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	1.4		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	4.7		0.037	0.024	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-05_20221004 (Continued)

Lab Sample ID: 200-65197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.41	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	1.5		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	57	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.66		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	2.1		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.60		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Cumene	0.080	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.056	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.31		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.65		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.44		0.20	0.089	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	0.49	J D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
Chlorodifluoromethane - DL	0.65	J D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
n-Butane - DL	11	D	1.0	0.38	ppb v/v	2		TO-15	Total/NA
1,3-Butadiene - DL	3.1	D	0.40	0.076	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane - DL	0.61	D	0.40	0.10	ppb v/v	2		TO-15	Total/NA
Acetone - DL	36	D	10	4.0	ppb v/v	2		TO-15	Total/NA
Isopropyl alcohol - DL	4.3	J D	10	2.0	ppb v/v	2		TO-15	Total/NA
Carbon disulfide - DL	1.7	D	1.0	0.26	ppb v/v	2		TO-15	Total/NA
tert-Butyl alcohol - DL	9.3	J D	10	2.4	ppb v/v	2		TO-15	Total/NA
n-Hexane - DL	2.0	D	1.0	0.46	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	3.8	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	11	D	0.10	0.066	ppb v/v	2		TO-15	Total/NA
Chloroform - DL	5.5	D	0.40	0.092	ppb v/v	2		TO-15	Total/NA
Cyclohexane - DL	0.59	D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	0.74	D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
Benzene - DL	1.2	D	0.40	0.15	ppb v/v	2		TO-15	Total/NA
n-Heptane - DL	1.4	D	0.40	0.12	ppb v/v	2		TO-15	Total/NA
Trichloroethene - DL	4.7	D	0.074	0.048	ppb v/v	2		TO-15	Total/NA
Toluene - DL	1.5	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene - DL	58	D	0.40	0.054	ppb v/v	2		TO-15	Total/NA
Ethylbenzene - DL	0.65	D	0.40	0.20	ppb v/v	2		TO-15	Total/NA
m,p-Xylene - DL	2.0	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
o-Xylene - DL	0.59	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	0.29	J D	0.40	0.094	ppb v/v	2		TO-15	Total/NA
4-Isopropyltoluene - DL	0.64	D	0.40	0.078	ppb v/v	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	0.44	D	0.40	0.18	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.80	J	2.5	0.54	ug/m3			10/06/22 11:50	1
Chlorodifluoromethane	8.0		1.8	0.39	ug/m3			10/06/22 11:50	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/06/22 11:50	1
Chloromethane	0.43	J	1.0	0.25	ug/m3			10/06/22 11:50	1
n-Butane	8.1		1.2	0.45	ug/m3			10/06/22 11:50	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/06/22 11:50	1
1,3-Butadiene	1.6		0.44	0.084	ug/m3			10/06/22 11:50	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/06/22 11:50	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/06/22 11:50	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/06/22 11:50	1
Trichlorofluoromethane	2.0		1.1	0.29	ug/m3			10/06/22 11:50	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/06/22 11:50	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/06/22 11:50	1
Acetone	160	E	12	4.8	ug/m3			10/06/22 11:50	1
Isopropyl alcohol	31		12	2.4	ug/m3			10/06/22 11:50	1
Carbon disulfide	1.6		1.6	0.40	ug/m3			10/06/22 11:50	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/06/22 11:50	1
Methylene Chloride	0.65	J	1.7	0.59	ug/m3			10/06/22 11:50	1
tert-Butyl alcohol	8.6	J	15	3.6	ug/m3			10/06/22 11:50	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/06/22 11:50	1
trans-1,2-Dichloroethene	1.0		0.79	0.35	ug/m3			10/06/22 11:50	1
n-Hexane	3.7		1.8	0.81	ug/m3			10/06/22 11:50	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/06/22 11:50	1
Methyl Ethyl Ketone (2-Butanone)	6.0		1.5	0.50	ug/m3			10/06/22 11:50	1
cis-1,2-Dichloroethene	110		0.20	0.13	ug/m3			10/06/22 11:50	1
Chloroform	10		0.98	0.22	ug/m3			10/06/22 11:50	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/06/22 11:50	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/06/22 11:50	1
Cyclohexane	1.0		0.69	0.12	ug/m3			10/06/22 11:50	1
Carbon tetrachloride	0.40		0.22	0.20	ug/m3			10/06/22 11:50	1
2,2,4-Trimethylpentane	1.5		0.93	0.16	ug/m3			10/06/22 11:50	1
Benzene	2.2		0.64	0.24	ug/m3			10/06/22 11:50	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/06/22 11:50	1
n-Heptane	2.4		0.82	0.24	ug/m3			10/06/22 11:50	1
Trichloroethene	34		0.20	0.13	ug/m3			10/06/22 11:50	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/06/22 11:50	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/06/22 11:50	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/06/22 11:50	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/06/22 11:50	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/06/22 11:50	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			10/06/22 11:50	1
Toluene	24		0.75	0.35	ug/m3			10/06/22 11:50	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/06/22 11:50	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/06/22 11:50	1
Tetrachloroethene	210		1.4	0.18	ug/m3			10/06/22 11:50	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/06/22 11:50	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/06/22 11:50	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/06/22 11:50	1

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/06/22 11:50	1
Ethylbenzene	4.2		0.87	0.43	ug/m3			10/06/22 11:50	1
m,p-Xylene	17		2.2	0.74	ug/m3			10/06/22 11:50	1
o-Xylene	3.8		0.87	0.41	ug/m3			10/06/22 11:50	1
Styrene	0.30	J	0.85	0.14	ug/m3			10/06/22 11:50	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/06/22 11:50	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/06/22 11:50	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/06/22 11:50	1
n-Propylbenzene	0.38	J	0.98	0.23	ug/m3			10/06/22 11:50	1
4-Ethyltoluene	0.54	J	0.98	0.25	ug/m3			10/06/22 11:50	1
1,3,5-Trimethylbenzene	0.45	J	0.98	0.22	ug/m3			10/06/22 11:50	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/06/22 11:50	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/06/22 11:50	1
1,2,4-Trimethylbenzene	1.8		0.98	0.23	ug/m3			10/06/22 11:50	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/06/22 11:50	1
4-Isopropyltoluene	2.3		1.1	0.21	ug/m3			10/06/22 11:50	1
1,3-Dichlorobenzene	1.6		1.2	0.54	ug/m3			10/06/22 11:50	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/06/22 11:50	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/06/22 11:50	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/06/22 11:50	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/06/22 11:50	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/06/22 11:50	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/06/22 11:50	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/06/22 11:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.16	J	0.50	0.11	ppb v/v			10/06/22 11:50	1
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v			10/06/22 11:50	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 11:50	1
Chloromethane	0.21	J	0.50	0.12	ppb v/v			10/06/22 11:50	1
n-Butane	3.4		0.50	0.19	ppb v/v			10/06/22 11:50	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/06/22 11:50	1
1,3-Butadiene	0.70		0.20	0.038	ppb v/v			10/06/22 11:50	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/06/22 11:50	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/06/22 11:50	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/06/22 11:50	1
Trichlorofluoromethane	0.36		0.20	0.052	ppb v/v			10/06/22 11:50	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 11:50	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/06/22 11:50	1
Acetone	69	E	5.0	2.0	ppb v/v			10/06/22 11:50	1
Isopropyl alcohol	13		5.0	0.98	ppb v/v			10/06/22 11:50	1
Carbon disulfide	0.50		0.50	0.13	ppb v/v			10/06/22 11:50	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/06/22 11:50	1
Methylene Chloride	0.19	J	0.50	0.17	ppb v/v			10/06/22 11:50	1
tert-Butyl alcohol	2.8	J	5.0	1.2	ppb v/v			10/06/22 11:50	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/06/22 11:50	1
trans-1,2-Dichloroethene	0.26		0.20	0.088	ppb v/v			10/06/22 11:50	1
n-Hexane	1.1		0.50	0.23	ppb v/v			10/06/22 11:50	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/06/22 11:50	1

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	2.0		0.50	0.17	ppb v/v			10/06/22 11:50	1
cis-1,2-Dichloroethene	27		0.050	0.033	ppb v/v			10/06/22 11:50	1
Chloroform	2.1		0.20	0.046	ppb v/v			10/06/22 11:50	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/06/22 11:50	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/06/22 11:50	1
Cyclohexane	0.29		0.20	0.035	ppb v/v			10/06/22 11:50	1
Carbon tetrachloride	0.064		0.035	0.032	ppb v/v			10/06/22 11:50	1
2,2,4-Trimethylpentane	0.33		0.20	0.035	ppb v/v			10/06/22 11:50	1
Benzene	0.70		0.20	0.074	ppb v/v			10/06/22 11:50	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/06/22 11:50	1
n-Heptane	0.59		0.20	0.059	ppb v/v			10/06/22 11:50	1
Trichloroethene	6.3		0.037	0.024	ppb v/v			10/06/22 11:50	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/06/22 11:50	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/06/22 11:50	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/06/22 11:50	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/06/22 11:50	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/06/22 11:50	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			10/06/22 11:50	1
Toluene	6.4		0.20	0.093	ppb v/v			10/06/22 11:50	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/06/22 11:50	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/06/22 11:50	1
Tetrachloroethene	32		0.20	0.027	ppb v/v			10/06/22 11:50	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/06/22 11:50	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/06/22 11:50	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/06/22 11:50	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/06/22 11:50	1
Ethylbenzene	0.96		0.20	0.10	ppb v/v			10/06/22 11:50	1
m,p-Xylene	3.9		0.50	0.17	ppb v/v			10/06/22 11:50	1
o-Xylene	0.87		0.20	0.094	ppb v/v			10/06/22 11:50	1
Styrene	0.070	J	0.20	0.032	ppb v/v			10/06/22 11:50	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/06/22 11:50	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/06/22 11:50	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/06/22 11:50	1
n-Propylbenzene	0.076	J	0.20	0.047	ppb v/v			10/06/22 11:50	1
4-Ethyltoluene	0.11	J	0.20	0.051	ppb v/v			10/06/22 11:50	1
1,3,5-Trimethylbenzene	0.092	J	0.20	0.044	ppb v/v			10/06/22 11:50	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/06/22 11:50	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/06/22 11:50	1
1,2,4-Trimethylbenzene	0.36		0.20	0.047	ppb v/v			10/06/22 11:50	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/06/22 11:50	1
4-Isopropyltoluene	0.42		0.20	0.039	ppb v/v			10/06/22 11:50	1
1,3-Dichlorobenzene	0.27		0.20	0.089	ppb v/v			10/06/22 11:50	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/06/22 11:50	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/06/22 11:50	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/06/22 11:50	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/06/22 11:50	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/06/22 11:50	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/06/22 11:50	1

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/06/22 11:50	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.0	J D	4.9	1.1	ug/m3			10/06/22 12:43	2
Chlorodifluoromethane	8.0	D	3.5	0.78	ug/m3			10/06/22 12:43	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.77	ug/m3			10/06/22 12:43	2
Chloromethane	2.1	U	2.1	0.50	ug/m3			10/06/22 12:43	2
n-Butane	13	D	2.4	0.90	ug/m3			10/06/22 12:43	2
Vinyl chloride	0.40	U	0.40	0.14	ug/m3			10/06/22 12:43	2
1,3-Butadiene	1.6	D	0.88	0.17	ug/m3			10/06/22 12:43	2
Bromomethane	1.6	U	1.6	0.40	ug/m3			10/06/22 12:43	2
Chloroethane	2.6	U	2.6	1.3	ug/m3			10/06/22 12:43	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.74	ug/m3			10/06/22 12:43	2
Trichlorofluoromethane	2.0	J D	2.2	0.58	ug/m3			10/06/22 12:43	2
1,1,2-Trichlorotrifluoroethane	3.1	U	3.1	0.84	ug/m3			10/06/22 12:43	2
1,1-Dichloroethene	0.40	U	0.40	0.23	ug/m3			10/06/22 12:43	2
Acetone	170	D	24	9.5	ug/m3			10/06/22 12:43	2
Isopropyl alcohol	31	D	25	4.8	ug/m3			10/06/22 12:43	2
Carbon disulfide	1.6	J D	3.1	0.81	ug/m3			10/06/22 12:43	2
3-Chloropropene	3.1	U	3.1	0.69	ug/m3			10/06/22 12:43	2
Methylene Chloride	3.5	U	3.5	1.2	ug/m3			10/06/22 12:43	2
tert-Butyl alcohol	10	J D	30	7.3	ug/m3			10/06/22 12:43	2
Methyl tert-butyl ether	1.4	U	1.4	0.58	ug/m3			10/06/22 12:43	2
trans-1,2-Dichloroethene	1.0	J D	1.6	0.70	ug/m3			10/06/22 12:43	2
n-Hexane	3.8	D	3.5	1.6	ug/m3			10/06/22 12:43	2
1,1-Dichloroethane	1.6	U	1.6	0.23	ug/m3			10/06/22 12:43	2
Methyl Ethyl Ketone (2-Butanone)	6.1	D	2.9	1.0	ug/m3			10/06/22 12:43	2
cis-1,2-Dichloroethene	110	D	0.40	0.26	ug/m3			10/06/22 12:43	2
Chloroform	10	D	2.0	0.45	ug/m3			10/06/22 12:43	2
Tetrahydrofuran	29	U	29	7.1	ug/m3			10/06/22 12:43	2
1,1,1-Trichloroethane	2.2	U	2.2	0.43	ug/m3			10/06/22 12:43	2
Cyclohexane	0.96	J D	1.4	0.24	ug/m3			10/06/22 12:43	2
Carbon tetrachloride	0.44	U	0.44	0.40	ug/m3			10/06/22 12:43	2
2,2,4-Trimethylpentane	1.4	J D	1.9	0.33	ug/m3			10/06/22 12:43	2
Benzene	2.2	D	1.3	0.47	ug/m3			10/06/22 12:43	2
1,2-Dichloroethane	1.6	U	1.6	1.2	ug/m3			10/06/22 12:43	2
n-Heptane	2.3	D	1.6	0.48	ug/m3			10/06/22 12:43	2
Trichloroethene	33	D	0.40	0.26	ug/m3			10/06/22 12:43	2
Methyl methacrylate	4.1	U	4.1	1.3	ug/m3			10/06/22 12:43	2
1,2-Dichloropropane	1.8	U	1.8	0.80	ug/m3			10/06/22 12:43	2
1,4-Dioxane	36	U	36	12	ug/m3			10/06/22 12:43	2
Bromodichloromethane	2.7	U	2.7	0.54	ug/m3			10/06/22 12:43	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.18	ug/m3			10/06/22 12:43	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	4.1	U	4.1	1.6	ug/m3			10/06/22 12:43	2
Toluene	24	D	1.5	0.70	ug/m3			10/06/22 12:43	2
trans-1,3-Dichloropropene	1.8	U	1.8	0.81	ug/m3			10/06/22 12:43	2
1,1,2-Trichloroethane	2.2	U	2.2	0.37	ug/m3			10/06/22 12:43	2

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	220	D	2.7	0.37	ug/m3			10/06/22 12:43	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	1.6	ug/m3			10/06/22 12:43	2
Dibromochloromethane	3.4	U	3.4	0.53	ug/m3			10/06/22 12:43	2
1,2-Dibromoethane	3.1	U	3.1	0.71	ug/m3			10/06/22 12:43	2
Chlorobenzene	1.8	U	1.8	0.40	ug/m3			10/06/22 12:43	2
Ethylbenzene	4.3	D	1.7	0.87	ug/m3			10/06/22 12:43	2
m,p-Xylene	16	D	4.3	1.5	ug/m3			10/06/22 12:43	2
o-Xylene	3.9	D	1.7	0.82	ug/m3			10/06/22 12:43	2
Styrene	1.7	U	1.7	0.27	ug/m3			10/06/22 12:43	2
Bromoform	4.1	U	4.1	1.2	ug/m3			10/06/22 12:43	2
Cumene	2.0	U	2.0	0.36	ug/m3			10/06/22 12:43	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	0.59	ug/m3			10/06/22 12:43	2
n-Propylbenzene	2.0	U	2.0	0.46	ug/m3			10/06/22 12:43	2
4-Ethyltoluene	2.0	U	2.0	0.50	ug/m3			10/06/22 12:43	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.43	ug/m3			10/06/22 12:43	2
2-Chlorotoluene	2.1	U	2.1	0.50	ug/m3			10/06/22 12:43	2
tert-Butylbenzene	2.2	U	2.2	0.41	ug/m3			10/06/22 12:43	2
1,2,4-Trimethylbenzene	1.8	J D	2.0	0.46	ug/m3			10/06/22 12:43	2
sec-Butylbenzene	2.2	U	2.2	0.43	ug/m3			10/06/22 12:43	2
4-Isopropyltoluene	2.4	D	2.2	0.43	ug/m3			10/06/22 12:43	2
1,3-Dichlorobenzene	1.6	J D	2.4	1.1	ug/m3			10/06/22 12:43	2
1,4-Dichlorobenzene	2.4	U	2.4	1.1	ug/m3			10/06/22 12:43	2
Benzyl chloride	2.1	U	2.1	0.77	ug/m3			10/06/22 12:43	2
n-Butylbenzene	2.2	U	2.2	0.60	ug/m3			10/06/22 12:43	2
1,2-Dichlorobenzene	2.4	U	2.4	0.84	ug/m3			10/06/22 12:43	2
1,2,4-Trichlorobenzene	7.4	U	7.4	2.8	ug/m3			10/06/22 12:43	2
Hexachlorobutadiene	4.3	U	4.3	0.66	ug/m3			10/06/22 12:43	2
Naphthalene	5.2	U	5.2	1.8	ug/m3			10/06/22 12:43	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.41	J D	1.0	0.22	ppb v/v			10/06/22 12:43	2
Chlorodifluoromethane	2.3	D	1.0	0.22	ppb v/v			10/06/22 12:43	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.11	ppb v/v			10/06/22 12:43	2
Chloromethane	1.0	U	1.0	0.24	ppb v/v			10/06/22 12:43	2
n-Butane	5.3	D	1.0	0.38	ppb v/v			10/06/22 12:43	2
Vinyl chloride	0.16	U	0.16	0.056	ppb v/v			10/06/22 12:43	2
1,3-Butadiene	0.72	D	0.40	0.076	ppb v/v			10/06/22 12:43	2
Bromomethane	0.40	U	0.40	0.10	ppb v/v			10/06/22 12:43	2
Chloroethane	1.0	U	1.0	0.50	ppb v/v			10/06/22 12:43	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.17	ppb v/v			10/06/22 12:43	2
Trichlorofluoromethane	0.35	J D	0.40	0.10	ppb v/v			10/06/22 12:43	2
1,1,2-Trichlorotrifluoroethane	0.40	U	0.40	0.11	ppb v/v			10/06/22 12:43	2
1,1-Dichloroethene	0.10	U	0.10	0.058	ppb v/v			10/06/22 12:43	2
Acetone	73	D	10	4.0	ppb v/v			10/06/22 12:43	2
Isopropyl alcohol	12	D	10	2.0	ppb v/v			10/06/22 12:43	2
Carbon disulfide	0.52	J D	1.0	0.26	ppb v/v			10/06/22 12:43	2
3-Chloropropene	1.0	U	1.0	0.22	ppb v/v			10/06/22 12:43	2
Methylene Chloride	1.0	U	1.0	0.34	ppb v/v			10/06/22 12:43	2
tert-Butyl alcohol	3.4	J D	10	2.4	ppb v/v			10/06/22 12:43	2

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.40	U	0.40	0.16	ppb v/v			10/06/22 12:43	2
trans-1,2-Dichloroethene	0.26	J D	0.40	0.18	ppb v/v			10/06/22 12:43	2
n-Hexane	1.1	D	1.0	0.46	ppb v/v			10/06/22 12:43	2
1,1-Dichloroethane	0.40	U	0.40	0.058	ppb v/v			10/06/22 12:43	2
Methyl Ethyl Ketone (2-Butanone)	2.1	D	1.0	0.34	ppb v/v			10/06/22 12:43	2
cis-1,2-Dichloroethene	27	D	0.10	0.066	ppb v/v			10/06/22 12:43	2
Chloroform	2.1	D	0.40	0.092	ppb v/v			10/06/22 12:43	2
Tetrahydrofuran	10	U	10	2.4	ppb v/v			10/06/22 12:43	2
1,1,1-Trichloroethane	0.40	U	0.40	0.078	ppb v/v			10/06/22 12:43	2
Cyclohexane	0.28	J D	0.40	0.070	ppb v/v			10/06/22 12:43	2
Carbon tetrachloride	0.070	U	0.070	0.064	ppb v/v			10/06/22 12:43	2
2,2,4-Trimethylpentane	0.31	J D	0.40	0.070	ppb v/v			10/06/22 12:43	2
Benzene	0.69	D	0.40	0.15	ppb v/v			10/06/22 12:43	2
1,2-Dichloroethane	0.40	U	0.40	0.30	ppb v/v			10/06/22 12:43	2
n-Heptane	0.56	D	0.40	0.12	ppb v/v			10/06/22 12:43	2
Trichloroethene	6.1	D	0.074	0.048	ppb v/v			10/06/22 12:43	2
Methyl methacrylate	1.0	U	1.0	0.32	ppb v/v			10/06/22 12:43	2
1,2-Dichloropropane	0.40	U	0.40	0.17	ppb v/v			10/06/22 12:43	2
1,4-Dioxane	10	U	10	3.4	ppb v/v			10/06/22 12:43	2
Bromodichloromethane	0.40	U	0.40	0.080	ppb v/v			10/06/22 12:43	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.040	ppb v/v			10/06/22 12:43	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	U	1.0	0.38	ppb v/v			10/06/22 12:43	2
Toluene	6.5	D	0.40	0.19	ppb v/v			10/06/22 12:43	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.18	ppb v/v			10/06/22 12:43	2
1,1,2-Trichloroethane	0.40	U	0.40	0.068	ppb v/v			10/06/22 12:43	2
Tetrachloroethene	33	D	0.40	0.054	ppb v/v			10/06/22 12:43	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.40	ppb v/v			10/06/22 12:43	2
Dibromochloromethane	0.40	U	0.40	0.062	ppb v/v			10/06/22 12:43	2
1,2-Dibromoethane	0.40	U	0.40	0.092	ppb v/v			10/06/22 12:43	2
Chlorobenzene	0.40	U	0.40	0.086	ppb v/v			10/06/22 12:43	2
Ethylbenzene	0.98	D	0.40	0.20	ppb v/v			10/06/22 12:43	2
m,p-Xylene	3.7	D	1.0	0.34	ppb v/v			10/06/22 12:43	2
o-Xylene	0.91	D	0.40	0.19	ppb v/v			10/06/22 12:43	2
Styrene	0.40	U	0.40	0.064	ppb v/v			10/06/22 12:43	2
Bromoform	0.40	U	0.40	0.12	ppb v/v			10/06/22 12:43	2
Cumene	0.40	U	0.40	0.074	ppb v/v			10/06/22 12:43	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.086	ppb v/v			10/06/22 12:43	2
n-Propylbenzene	0.40	U	0.40	0.094	ppb v/v			10/06/22 12:43	2
4-Ethyltoluene	0.40	U	0.40	0.10	ppb v/v			10/06/22 12:43	2
1,3,5-Trimethylbenzene	0.40	U	0.40	0.088	ppb v/v			10/06/22 12:43	2
2-Chlorotoluene	0.40	U	0.40	0.096	ppb v/v			10/06/22 12:43	2
tert-Butylbenzene	0.40	U	0.40	0.074	ppb v/v			10/06/22 12:43	2
1,2,4-Trimethylbenzene	0.36	J D	0.40	0.094	ppb v/v			10/06/22 12:43	2
sec-Butylbenzene	0.40	U	0.40	0.078	ppb v/v			10/06/22 12:43	2
4-Isopropyltoluene	0.45	D	0.40	0.078	ppb v/v			10/06/22 12:43	2
1,3-Dichlorobenzene	0.27	J D	0.40	0.18	ppb v/v			10/06/22 12:43	2
1,4-Dichlorobenzene	0.40	U	0.40	0.19	ppb v/v			10/06/22 12:43	2
Benzyl chloride	0.40	U	0.40	0.15	ppb v/v			10/06/22 12:43	2

Client Sample ID: SV-02_20221003

Lab Sample ID: 200-65184-1

Date Collected: 10/03/22 13:10
Matrix: Air
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	0.40	U	0.40	0.11	ppb v/v			10/06/22 12:43	2
1,2-Dichlorobenzene	0.40	U	0.40	0.14	ppb v/v			10/06/22 12:43	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.38	ppb v/v			10/06/22 12:43	2
Hexachlorobutadiene	0.40	U	0.40	0.062	ppb v/v			10/06/22 12:43	2
Naphthalene	1.0	U	1.0	0.34	ppb v/v			10/06/22 12:43	2

Client Sample ID: SV-04_20221003

Lab Sample ID: 200-65184-2

Date Collected: 10/03/22 15:30
Matrix: Air
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.8**	**J**	2.5	0.54	ug/m3			10/07/22 01:07	1
Chlorodifluoromethane	**0.87**	**J**	1.8	0.39	ug/m3			10/07/22 01:07	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 01:07	1
Chloromethane	**0.32**	**J**	1.0	0.25	ug/m3			10/07/22 01:07	1
n-Butane	**12**		1.2	0.45	ug/m3			10/07/22 01:07	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 01:07	1
1,3-Butadiene	**3.9**		0.44	0.084	ug/m3			10/07/22 01:07	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 01:07	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 01:07	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 01:07	1
Trichlorofluoromethane	**1.0**	**J**	1.1	0.29	ug/m3			10/07/22 01:07	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/07/22 01:07	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 01:07	1
Acetone	**160**	**E**	12	4.8	ug/m3			10/07/22 01:07	1
Isopropyl alcohol	**24**		12	2.4	ug/m3			10/07/22 01:07	1
Carbon disulfide	**3.0**		1.6	0.40	ug/m3			10/07/22 01:07	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 01:07	1
Methylene Chloride	**1.2**	**J**	1.7	0.59	ug/m3			10/07/22 01:07	1
tert-Butyl alcohol	**14**	**J**	15	3.6	ug/m3			10/07/22 01:07	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 01:07	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/07/22 01:07	1
n-Hexane	**7.1**		1.8	0.81	ug/m3			10/07/22 01:07	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 01:07	1
Methyl Ethyl Ketone (2-Butanone)	**8.2**		1.5	0.50	ug/m3			10/07/22 01:07	1
cis-1,2-Dichloroethene	**22**		0.20	0.13	ug/m3			10/07/22 01:07	1
Chloroform	**5.9**		0.98	0.22	ug/m3			10/07/22 01:07	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 01:07	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 01:07	1
Cyclohexane	**1.1**		0.69	0.12	ug/m3			10/07/22 01:07	1
Carbon tetrachloride	**0.24**		0.22	0.20	ug/m3			10/07/22 01:07	1
2,2,4-Trimethylpentane	**1.2**		0.93	0.16	ug/m3			10/07/22 01:07	1
Benzene	**4.1**		0.64	0.24	ug/m3			10/07/22 01:07	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 01:07	1
n-Heptane	**3.9**		0.82	0.24	ug/m3			10/07/22 01:07	1
Trichloroethene	**28**		0.20	0.13	ug/m3			10/07/22 01:07	1
Methyl methacrylate	**0.76**	**J**	2.0	0.66	ug/m3			10/07/22 01:07	1

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 01:07	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 01:07	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 01:07	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 01:07	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	**1.0**	**J**	2.0	0.78	ug/m3			10/07/22 01:07	1
Toluene	**29**		0.75	0.35	ug/m3			10/07/22 01:07	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 01:07	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 01:07	1
Tetrachloroethene	**1400**	**E**	1.4	0.18	ug/m3			10/07/22 01:07	1
Methyl Butyl Ketone (2-Hexanone)	**1.6**	**J**	2.0	0.82	ug/m3			10/07/22 01:07	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 01:07	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 01:07	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 01:07	1
Ethylbenzene	**5.8**		0.87	0.43	ug/m3			10/07/22 01:07	1
m,p-Xylene	**23**		2.2	0.74	ug/m3			10/07/22 01:07	1
o-Xylene	**4.9**		0.87	0.41	ug/m3			10/07/22 01:07	1
Styrene	**0.42**	**J**	0.85	0.14	ug/m3			10/07/22 01:07	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 01:07	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/07/22 01:07	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 01:07	1
n-Propylbenzene	**0.53**	**J**	0.98	0.23	ug/m3			10/07/22 01:07	1
4-Ethyltoluene	**0.73**	**J**	0.98	0.25	ug/m3			10/07/22 01:07	1
1,3,5-Trimethylbenzene	**0.49**	**J**	0.98	0.22	ug/m3			10/07/22 01:07	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 01:07	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 01:07	1
1,2,4-Trimethylbenzene	**2.1**		0.98	0.23	ug/m3			10/07/22 01:07	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 01:07	1
4-Isopropyltoluene	**2.7**		1.1	0.21	ug/m3			10/07/22 01:07	1
1,3-Dichlorobenzene	**2.2**		1.2	0.54	ug/m3			10/07/22 01:07	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 01:07	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/07/22 01:07	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 01:07	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 01:07	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 01:07	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 01:07	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 01:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.35**	**J**	0.50	0.11	ppb v/v			10/07/22 01:07	1
Chlorodifluoromethane	**0.24**	**J**	0.50	0.11	ppb v/v			10/07/22 01:07	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 01:07	1
Chloromethane	**0.16**	**J**	0.50	0.12	ppb v/v			10/07/22 01:07	1
n-Butane	**5.0**		0.50	0.19	ppb v/v			10/07/22 01:07	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 01:07	1
1,3-Butadiene	**1.8**		0.20	0.038	ppb v/v			10/07/22 01:07	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 01:07	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 01:07	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 01:07	1

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.18	J	0.20	0.052	ppb v/v			10/07/22 01:07	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 01:07	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 01:07	1
Acetone	69	E	5.0	2.0	ppb v/v			10/07/22 01:07	1
Isopropyl alcohol	9.9		5.0	0.98	ppb v/v			10/07/22 01:07	1
Carbon disulfide	0.96		0.50	0.13	ppb v/v			10/07/22 01:07	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 01:07	1
Methylene Chloride	0.35	J	0.50	0.17	ppb v/v			10/07/22 01:07	1
tert-Butyl alcohol	4.5	J	5.0	1.2	ppb v/v			10/07/22 01:07	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 01:07	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/07/22 01:07	1
n-Hexane	2.0		0.50	0.23	ppb v/v			10/07/22 01:07	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 01:07	1
Methyl Ethyl Ketone (2-Butanone)	2.8		0.50	0.17	ppb v/v			10/07/22 01:07	1
cis-1,2-Dichloroethene	5.5		0.050	0.033	ppb v/v			10/07/22 01:07	1
Chloroform	1.2		0.20	0.046	ppb v/v			10/07/22 01:07	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 01:07	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 01:07	1
Cyclohexane	0.31		0.20	0.035	ppb v/v			10/07/22 01:07	1
Carbon tetrachloride	0.038		0.035	0.032	ppb v/v			10/07/22 01:07	1
2,2,4-Trimethylpentane	0.26		0.20	0.035	ppb v/v			10/07/22 01:07	1
Benzene	1.3		0.20	0.074	ppb v/v			10/07/22 01:07	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 01:07	1
n-Heptane	0.95		0.20	0.059	ppb v/v			10/07/22 01:07	1
Trichloroethene	5.2		0.037	0.024	ppb v/v			10/07/22 01:07	1
Methyl methacrylate	0.18	J	0.50	0.16	ppb v/v			10/07/22 01:07	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 01:07	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 01:07	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 01:07	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 01:07	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.25	J	0.50	0.19	ppb v/v			10/07/22 01:07	1
Toluene	7.6		0.20	0.093	ppb v/v			10/07/22 01:07	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 01:07	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 01:07	1
Tetrachloroethene	200	E	0.20	0.027	ppb v/v			10/07/22 01:07	1
Methyl Butyl Ketone (2-Hexanone)	0.38	J	0.50	0.20	ppb v/v			10/07/22 01:07	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 01:07	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 01:07	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 01:07	1
Ethylbenzene	1.3		0.20	0.10	ppb v/v			10/07/22 01:07	1
m,p-Xylene	5.4		0.50	0.17	ppb v/v			10/07/22 01:07	1
o-Xylene	1.1		0.20	0.094	ppb v/v			10/07/22 01:07	1
Styrene	0.10	J	0.20	0.032	ppb v/v			10/07/22 01:07	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 01:07	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/07/22 01:07	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 01:07	1
n-Propylbenzene	0.11	J	0.20	0.047	ppb v/v			10/07/22 01:07	1
4-Ethyltoluene	0.15	J	0.20	0.051	ppb v/v			10/07/22 01:07	1

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.099	J	0.20	0.044	ppb v/v			10/07/22 01:07	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 01:07	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 01:07	1
1,2,4-Trimethylbenzene	0.42		0.20	0.047	ppb v/v			10/07/22 01:07	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 01:07	1
4-Isopropyltoluene	0.49		0.20	0.039	ppb v/v			10/07/22 01:07	1
1,3-Dichlorobenzene	0.37		0.20	0.089	ppb v/v			10/07/22 01:07	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 01:07	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/07/22 01:07	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 01:07	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 01:07	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 01:07	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 01:07	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 01:07	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			10/06/22 14:29	10
Chlorodifluoromethane	18	U	18	3.9	ug/m3			10/06/22 14:29	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.8	ug/m3			10/06/22 14:29	10
Chloromethane	10	U	10	2.5	ug/m3			10/06/22 14:29	10
n-Butane	11	J D	12	4.5	ug/m3			10/06/22 14:29	10
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			10/06/22 14:29	10
1,3-Butadiene	2.7	J D	4.4	0.84	ug/m3			10/06/22 14:29	10
Bromomethane	7.8	U	7.8	2.0	ug/m3			10/06/22 14:29	10
Chloroethane	13	U	13	6.6	ug/m3			10/06/22 14:29	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	3.7	ug/m3			10/06/22 14:29	10
Trichlorofluoromethane	11	U	11	2.9	ug/m3			10/06/22 14:29	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.2	ug/m3			10/06/22 14:29	10
1,1-Dichloroethene	2.0	U	2.0	1.1	ug/m3			10/06/22 14:29	10
Acetone	130	D	120	48	ug/m3			10/06/22 14:29	10
Isopropyl alcohol	120	U	120	24	ug/m3			10/06/22 14:29	10
Carbon disulfide	16	U	16	4.0	ug/m3			10/06/22 14:29	10
3-Chloropropene	16	U	16	3.4	ug/m3			10/06/22 14:29	10
Methylene Chloride	17	U	17	5.9	ug/m3			10/06/22 14:29	10
tert-Butyl alcohol	150	U	150	36	ug/m3			10/06/22 14:29	10
Methyl tert-butyl ether	7.2	U	7.2	2.9	ug/m3			10/06/22 14:29	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			10/06/22 14:29	10
n-Hexane	18	U	18	8.1	ug/m3			10/06/22 14:29	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			10/06/22 14:29	10
Methyl Ethyl Ketone (2-Butanone)	15	U	15	5.0	ug/m3			10/06/22 14:29	10
cis-1,2-Dichloroethene	16	D	2.0	1.3	ug/m3			10/06/22 14:29	10
Chloroform	4.4	J D	9.8	2.2	ug/m3			10/06/22 14:29	10
Tetrahydrofuran	150	U	150	35	ug/m3			10/06/22 14:29	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			10/06/22 14:29	10
Cyclohexane	6.9	U	6.9	1.2	ug/m3			10/06/22 14:29	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			10/06/22 14:29	10
2,2,4-Trimethylpentane	9.3	U	9.3	1.6	ug/m3			10/06/22 14:29	10
Benzene	4.1	J D	6.4	2.4	ug/m3			10/06/22 14:29	10

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	8.1	U	8.1	6.1	ug/m3			10/06/22 14:29	10
n-Heptane	3.0	J D	8.2	2.4	ug/m3			10/06/22 14:29	10
Trichloroethene	23	D	2.0	1.3	ug/m3			10/06/22 14:29	10
Methyl methacrylate	20	U	20	6.6	ug/m3			10/06/22 14:29	10
1,2-Dichloropropane	9.2	U	9.2	4.0	ug/m3			10/06/22 14:29	10
1,4-Dioxane	180	U	180	61	ug/m3			10/06/22 14:29	10
Bromodichloromethane	13	U	13	2.7	ug/m3			10/06/22 14:29	10
cis-1,3-Dichloropropene	9.1	U	9.1	0.91	ug/m3			10/06/22 14:29	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			10/06/22 14:29	10
Toluene	24	D	7.5	3.5	ug/m3			10/06/22 14:29	10
trans-1,3-Dichloropropene	9.1	U	9.1	4.0	ug/m3			10/06/22 14:29	10
1,1,2-Trichloroethane	11	U	11	1.9	ug/m3			10/06/22 14:29	10
Tetrachloroethene	1900	D	14	1.8	ug/m3			10/06/22 14:29	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	8.2	ug/m3			10/06/22 14:29	10
Dibromochloromethane	17	U	17	2.6	ug/m3			10/06/22 14:29	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			10/06/22 14:29	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			10/06/22 14:29	10
Ethylbenzene	6.1	J D	8.7	4.3	ug/m3			10/06/22 14:29	10
m,p-Xylene	18	J D	22	7.4	ug/m3			10/06/22 14:29	10
o-Xylene	5.4	J D	8.7	4.1	ug/m3			10/06/22 14:29	10
Styrene	8.5	U	8.5	1.4	ug/m3			10/06/22 14:29	10
Bromoform	21	U	21	6.0	ug/m3			10/06/22 14:29	10
Cumene	9.8	U	9.8	1.8	ug/m3			10/06/22 14:29	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			10/06/22 14:29	10
n-Propylbenzene	9.8	U	9.8	2.3	ug/m3			10/06/22 14:29	10
4-Ethyltoluene	9.8	U	9.8	2.5	ug/m3			10/06/22 14:29	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.2	ug/m3			10/06/22 14:29	10
2-Chlorotoluene	10	U	10	2.5	ug/m3			10/06/22 14:29	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/06/22 14:29	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			10/06/22 14:29	10
sec-Butylbenzene	11	U	11	2.1	ug/m3			10/06/22 14:29	10
4-Isopropyltoluene	2.1	J D	11	2.1	ug/m3			10/06/22 14:29	10
1,3-Dichlorobenzene	12	U	12	5.4	ug/m3			10/06/22 14:29	10
1,4-Dichlorobenzene	12	U	12	5.7	ug/m3			10/06/22 14:29	10
Benzyl chloride	10	U	10	3.8	ug/m3			10/06/22 14:29	10
n-Butylbenzene	11	U	11	3.0	ug/m3			10/06/22 14:29	10
1,2-Dichlorobenzene	12	U	12	4.2	ug/m3			10/06/22 14:29	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/06/22 14:29	10
Hexachlorobutadiene	21	U	21	3.3	ug/m3			10/06/22 14:29	10
Naphthalene	26	U	26	8.9	ug/m3			10/06/22 14:29	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			10/06/22 14:29	10
Chlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			10/06/22 14:29	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.55	ppb v/v			10/06/22 14:29	10
Chloromethane	5.0	U	5.0	1.2	ppb v/v			10/06/22 14:29	10
n-Butane	4.6	J D	5.0	1.9	ppb v/v			10/06/22 14:29	10
Vinyl chloride	0.78	U	0.78	0.28	ppb v/v			10/06/22 14:29	10

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	1.2	J D	2.0	0.38	ppb v/v			10/06/22 14:29	10
Bromomethane	2.0	U	2.0	0.52	ppb v/v			10/06/22 14:29	10
Chloroethane	5.0	U	5.0	2.5	ppb v/v			10/06/22 14:29	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.85	ppb v/v			10/06/22 14:29	10
Trichlorofluoromethane	2.0	U	2.0	0.52	ppb v/v			10/06/22 14:29	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.55	ppb v/v			10/06/22 14:29	10
1,1-Dichloroethene	0.50	U	0.50	0.29	ppb v/v			10/06/22 14:29	10
Acetone	53	D	50	20	ppb v/v			10/06/22 14:29	10
Isopropyl alcohol	50	U	50	9.8	ppb v/v			10/06/22 14:29	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			10/06/22 14:29	10
3-Chloropropene	5.0	U	5.0	1.1	ppb v/v			10/06/22 14:29	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			10/06/22 14:29	10
tert-Butyl alcohol	50	U	50	12	ppb v/v			10/06/22 14:29	10
Methyl tert-butyl ether	2.0	U	2.0	0.80	ppb v/v			10/06/22 14:29	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			10/06/22 14:29	10
n-Hexane	5.0	U	5.0	2.3	ppb v/v			10/06/22 14:29	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			10/06/22 14:29	10
Methyl Ethyl Ketone (2-Butanone)	5.0	U	5.0	1.7	ppb v/v			10/06/22 14:29	10
cis-1,2-Dichloroethene	4.2	D	0.50	0.33	ppb v/v			10/06/22 14:29	10
Chloroform	0.90	J D	2.0	0.46	ppb v/v			10/06/22 14:29	10
Tetrahydrofuran	50	U	50	12	ppb v/v			10/06/22 14:29	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			10/06/22 14:29	10
Cyclohexane	2.0	U	2.0	0.35	ppb v/v			10/06/22 14:29	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			10/06/22 14:29	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.35	ppb v/v			10/06/22 14:29	10
Benzene	1.3	J D	2.0	0.74	ppb v/v			10/06/22 14:29	10
1,2-Dichloroethane	2.0	U	2.0	1.5	ppb v/v			10/06/22 14:29	10
n-Heptane	0.72	J D	2.0	0.59	ppb v/v			10/06/22 14:29	10
Trichloroethene	4.3	D	0.37	0.24	ppb v/v			10/06/22 14:29	10
Methyl methacrylate	5.0	U	5.0	1.6	ppb v/v			10/06/22 14:29	10
1,2-Dichloropropane	2.0	U	2.0	0.87	ppb v/v			10/06/22 14:29	10
1,4-Dioxane	50	U	50	17	ppb v/v			10/06/22 14:29	10
Bromodichloromethane	2.0	U	2.0	0.40	ppb v/v			10/06/22 14:29	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.20	ppb v/v			10/06/22 14:29	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			10/06/22 14:29	10
Toluene	6.3	D	2.0	0.93	ppb v/v			10/06/22 14:29	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.89	ppb v/v			10/06/22 14:29	10
1,1,2-Trichloroethane	2.0	U	2.0	0.34	ppb v/v			10/06/22 14:29	10
Tetrachloroethene	280	D	2.0	0.27	ppb v/v			10/06/22 14:29	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	2.0	ppb v/v			10/06/22 14:29	10
Dibromochloromethane	2.0	U	2.0	0.31	ppb v/v			10/06/22 14:29	10
1,2-Dibromoethane	2.0	U	2.0	0.46	ppb v/v			10/06/22 14:29	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			10/06/22 14:29	10
Ethylbenzene	1.4	J D	2.0	1.0	ppb v/v			10/06/22 14:29	10
m,p-Xylene	4.1	J D	5.0	1.7	ppb v/v			10/06/22 14:29	10
o-Xylene	1.3	J D	2.0	0.94	ppb v/v			10/06/22 14:29	10
Styrene	2.0	U	2.0	0.32	ppb v/v			10/06/22 14:29	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			10/06/22 14:29	10

Client Sample ID: SV-04_20221003

Lab Sample ID: 200-65184-2

Date Collected: 10/03/22 15:30
Matrix: Air
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene	2.0	U	2.0	0.37	ppb v/v			10/06/22 14:29	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			10/06/22 14:29	10
n-Propylbenzene	2.0	U	2.0	0.47	ppb v/v			10/06/22 14:29	10
4-Ethyltoluene	2.0	U	2.0	0.51	ppb v/v			10/06/22 14:29	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.44	ppb v/v			10/06/22 14:29	10
2-Chlorotoluene	2.0	U	2.0	0.48	ppb v/v			10/06/22 14:29	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/06/22 14:29	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			10/06/22 14:29	10
sec-Butylbenzene	2.0	U	2.0	0.39	ppb v/v			10/06/22 14:29	10
4-Isopropyltoluene	**0.38**	**J D**	2.0	0.39	ppb v/v			10/06/22 14:29	10
1,3-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			10/06/22 14:29	10
1,4-Dichlorobenzene	2.0	U	2.0	0.95	ppb v/v			10/06/22 14:29	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			10/06/22 14:29	10
n-Butylbenzene	2.0	U	2.0	0.55	ppb v/v			10/06/22 14:29	10
1,2-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			10/06/22 14:29	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/06/22 14:29	10
Hexachlorobutadiene	2.0	U	2.0	0.31	ppb v/v			10/06/22 14:29	10
Naphthalene	5.0	U	5.0	1.7	ppb v/v			10/06/22 14:29	10

Client Sample ID: SV-01_20221004

Lab Sample ID: 200-65197-1

Date Collected: 10/04/22 15:30
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.8**	**J**	2.5	0.54	ug/m3			10/07/22 14:34	1
Chlorodifluoromethane	**4.0**		1.8	0.39	ug/m3			10/07/22 14:34	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 14:34	1
Chloromethane	**0.80**	**J**	1.0	0.25	ug/m3			10/07/22 14:34	1
n-Butane	**12**		1.2	0.45	ug/m3			10/07/22 14:34	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 14:34	1
1,3-Butadiene	**3.6**		0.44	0.084	ug/m3			10/07/22 14:34	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 14:34	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 14:34	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 14:34	1
Trichlorofluoromethane	**1.6**		1.1	0.29	ug/m3			10/07/22 14:34	1
1,1,2-Trichlorotrifluoroethane	**0.48**	**J**	1.5	0.42	ug/m3			10/07/22 14:34	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 14:34	1
Acetone	**85**		12	4.8	ug/m3			10/07/22 14:34	1
Isopropyl alcohol	**24**		12	2.4	ug/m3			10/07/22 14:34	1
Carbon disulfide	**4.1**		1.6	0.40	ug/m3			10/07/22 14:34	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 14:34	1
Methylene Chloride	**3.9**		1.7	0.59	ug/m3			10/07/22 14:34	1
tert-Butyl alcohol	**14**	**J**	15	3.6	ug/m3			10/07/22 14:34	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 14:34	1
trans-1,2-Dichloroethene	**1.1**		0.79	0.35	ug/m3			10/07/22 14:34	1
n-Hexane	**3.3**		1.8	0.81	ug/m3			10/07/22 14:34	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 14:34	1

Client Sample ID: SV-01_20221004
Date Collected: 10/04/22 15:30
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	10		1.5	0.50	ug/m3			10/07/22 14:34	1
cis-1,2-Dichloroethene	180	E	0.20	0.13	ug/m3			10/07/22 14:34	1
Chloroform	8.6		0.98	0.22	ug/m3			10/07/22 14:34	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 14:34	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 14:34	1
Cyclohexane	1.1		0.69	0.12	ug/m3			10/07/22 14:34	1
Carbon tetrachloride	0.32		0.22	0.20	ug/m3			10/07/22 14:34	1
2,2,4-Trimethylpentane	1.2		0.93	0.16	ug/m3			10/07/22 14:34	1
Benzene	2.0		0.64	0.24	ug/m3			10/07/22 14:34	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 14:34	1
n-Heptane	2.9		0.82	0.24	ug/m3			10/07/22 14:34	1
Trichloroethene	30		0.20	0.13	ug/m3			10/07/22 14:34	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 14:34	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 14:34	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 14:34	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 14:34	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 14:34	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.2	J	2.0	0.78	ug/m3			10/07/22 14:34	1
Toluene	11		0.75	0.35	ug/m3			10/07/22 14:34	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 14:34	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 14:34	1
Tetrachloroethene	730	E	1.4	0.18	ug/m3			10/07/22 14:34	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 14:34	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 14:34	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 14:34	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 14:34	1
Ethylbenzene	1.4		0.87	0.43	ug/m3			10/07/22 14:34	1
m,p-Xylene	5.3		2.2	0.74	ug/m3			10/07/22 14:34	1
o-Xylene	2.0		0.87	0.41	ug/m3			10/07/22 14:34	1
Styrene	0.41	J	0.85	0.14	ug/m3			10/07/22 14:34	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 14:34	1
Cumene	0.28	J	0.98	0.18	ug/m3			10/07/22 14:34	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 14:34	1
n-Propylbenzene	0.26	J	0.98	0.23	ug/m3			10/07/22 14:34	1
4-Ethyltoluene	0.33	J	0.98	0.25	ug/m3			10/07/22 14:34	1
1,3,5-Trimethylbenzene	0.33	J	0.98	0.22	ug/m3			10/07/22 14:34	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 14:34	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 14:34	1
1,2,4-Trimethylbenzene	1.7		0.98	0.23	ug/m3			10/07/22 14:34	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 14:34	1
4-Isopropyltoluene	3.0		1.1	0.21	ug/m3			10/07/22 14:34	1
1,3-Dichlorobenzene	1.9		1.2	0.54	ug/m3			10/07/22 14:34	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 14:34	1
Benzyl chloride	1.0	U *+	1.0	0.38	ug/m3			10/07/22 14:34	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 14:34	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 14:34	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 14:34	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 14:34	1

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Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 14:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.37	J	0.50	0.11	ppb v/v			10/07/22 14:34	1
Chlorodifluoromethane	1.1		0.50	0.11	ppb v/v			10/07/22 14:34	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 14:34	1
Chloromethane	0.39	J	0.50	0.12	ppb v/v			10/07/22 14:34	1
n-Butane	5.1		0.50	0.19	ppb v/v			10/07/22 14:34	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 14:34	1
1,3-Butadiene	1.6		0.20	0.038	ppb v/v			10/07/22 14:34	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 14:34	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 14:34	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 14:34	1
Trichlorofluoromethane	0.28		0.20	0.052	ppb v/v			10/07/22 14:34	1
1,1,2-Trichlorotrifluoroethane	0.063	J	0.20	0.055	ppb v/v			10/07/22 14:34	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 14:34	1
Acetone	36		5.0	2.0	ppb v/v			10/07/22 14:34	1
Isopropyl alcohol	10		5.0	0.98	ppb v/v			10/07/22 14:34	1
Carbon disulfide	1.3		0.50	0.13	ppb v/v			10/07/22 14:34	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 14:34	1
Methylene Chloride	1.1		0.50	0.17	ppb v/v			10/07/22 14:34	1
tert-Butyl alcohol	4.6	J	5.0	1.2	ppb v/v			10/07/22 14:34	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 14:34	1
trans-1,2-Dichloroethene	0.27		0.20	0.088	ppb v/v			10/07/22 14:34	1
n-Hexane	0.93		0.50	0.23	ppb v/v			10/07/22 14:34	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 14:34	1
Methyl Ethyl Ketone (2-Butanone)	3.6		0.50	0.17	ppb v/v			10/07/22 14:34	1
cis-1,2-Dichloroethene	45	E	0.050	0.033	ppb v/v			10/07/22 14:34	1
Chloroform	1.8		0.20	0.046	ppb v/v			10/07/22 14:34	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 14:34	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 14:34	1
Cyclohexane	0.31		0.20	0.035	ppb v/v			10/07/22 14:34	1
Carbon tetrachloride	0.051		0.035	0.032	ppb v/v			10/07/22 14:34	1
2,2,4-Trimethylpentane	0.25		0.20	0.035	ppb v/v			10/07/22 14:34	1
Benzene	0.61		0.20	0.074	ppb v/v			10/07/22 14:34	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 14:34	1
n-Heptane	0.70		0.20	0.059	ppb v/v			10/07/22 14:34	1
Trichloroethene	5.5		0.037	0.024	ppb v/v			10/07/22 14:34	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 14:34	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 14:34	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 14:34	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 14:34	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 14:34	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.29	J	0.50	0.19	ppb v/v			10/07/22 14:34	1
Toluene	3.0		0.20	0.093	ppb v/v			10/07/22 14:34	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 14:34	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 14:34	1
Tetrachloroethene	110	E	0.20	0.027	ppb v/v			10/07/22 14:34	1

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Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 14:34	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 14:34	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 14:34	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 14:34	1
Ethylbenzene	**0.32**		0.20	0.10	ppb v/v			10/07/22 14:34	1
m,p-Xylene	**1.2**		0.50	0.17	ppb v/v			10/07/22 14:34	1
o-Xylene	**0.47**		0.20	0.094	ppb v/v			10/07/22 14:34	1
Styrene	**0.097**	**J**	0.20	0.032	ppb v/v			10/07/22 14:34	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 14:34	1
Cumene	**0.057**	**J**	0.20	0.037	ppb v/v			10/07/22 14:34	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 14:34	1
n-Propylbenzene	**0.053**	**J**	0.20	0.047	ppb v/v			10/07/22 14:34	1
4-Ethyltoluene	**0.067**	**J**	0.20	0.051	ppb v/v			10/07/22 14:34	1
1,3,5-Trimethylbenzene	**0.068**	**J**	0.20	0.044	ppb v/v			10/07/22 14:34	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 14:34	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 14:34	1
1,2,4-Trimethylbenzene	**0.36**		0.20	0.047	ppb v/v			10/07/22 14:34	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 14:34	1
4-Isopropyltoluene	**0.54**		0.20	0.039	ppb v/v			10/07/22 14:34	1
1,3-Dichlorobenzene	**0.32**		0.20	0.089	ppb v/v			10/07/22 14:34	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 14:34	1
Benzyl chloride	0.20	U *+	0.20	0.074	ppb v/v			10/07/22 14:34	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 14:34	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 14:34	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 14:34	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 14:34	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 14:34	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	15	U	15	3.3	ug/m3			10/07/22 15:26	6.14
Chlorodifluoromethane	**4.6**	**J D**	11	2.4	ug/m3			10/07/22 15:26	6.14
1,2-Dichlorotetrafluoroethane	8.6	U	8.6	2.4	ug/m3			10/07/22 15:26	6.14
Chloromethane	6.3	U	6.3	1.5	ug/m3			10/07/22 15:26	6.14
n-Butane	**13**	**D**	7.3	2.8	ug/m3			10/07/22 15:26	6.14
Vinyl chloride	1.2	U	1.2	0.44	ug/m3			10/07/22 15:26	6.14
1,3-Butadiene	**4.2**	**D**	2.7	0.52	ug/m3			10/07/22 15:26	6.14
Bromomethane	4.8	U	4.8	1.2	ug/m3			10/07/22 15:26	6.14
Chloroethane	8.1	U	8.1	4.1	ug/m3			10/07/22 15:26	6.14
Bromoethene(Vinyl Bromide)	5.4	U	5.4	2.3	ug/m3			10/07/22 15:26	6.14
Trichlorofluoromethane	**1.9**	**J D**	6.9	1.8	ug/m3			10/07/22 15:26	6.14
1,1,2-Trichlorotrifluoroethane	9.4	U	9.4	2.6	ug/m3			10/07/22 15:26	6.14
1,1-Dichloroethene	1.2	U	1.2	0.71	ug/m3			10/07/22 15:26	6.14
Acetone	**95**	**D**	73	29	ug/m3			10/07/22 15:26	6.14
Isopropyl alcohol	**28**	**J D**	75	15	ug/m3			10/07/22 15:26	6.14
Carbon disulfide	**4.5**	**J D**	9.6	2.5	ug/m3			10/07/22 15:26	6.14
3-Chloropropene	9.6	U	9.6	2.1	ug/m3			10/07/22 15:26	6.14
Methylene Chloride	**4.9**	**J D**	11	3.6	ug/m3			10/07/22 15:26	6.14
tert-Butyl alcohol	93	U	93	22	ug/m3			10/07/22 15:26	6.14

Client Sample ID: SV-01_20221004
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Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	4.4	U	4.4	1.8	ug/m3			10/07/22 15:26	6.14
trans-1,2-Dichloroethene	4.9	U	4.9	2.1	ug/m3			10/07/22 15:26	6.14
n-Hexane	11	U	11	5.0	ug/m3			10/07/22 15:26	6.14
1,1-Dichloroethane	5.0	U	5.0	0.72	ug/m3			10/07/22 15:26	6.14
Methyl Ethyl Ketone (2-Butanone)	12	D	9.1	3.1	ug/m3			10/07/22 15:26	6.14
cis-1,2-Dichloroethene	200	D	1.2	0.80	ug/m3			10/07/22 15:26	6.14
Chloroform	9.5	D	6.0	1.4	ug/m3			10/07/22 15:26	6.14
Tetrahydrofuran	91	U	91	22	ug/m3			10/07/22 15:26	6.14
1,1,1-Trichloroethane	6.7	U	6.7	1.3	ug/m3			10/07/22 15:26	6.14
Cyclohexane	1.2	J D	4.2	0.74	ug/m3			10/07/22 15:26	6.14
Carbon tetrachloride	1.4	U	1.4	1.2	ug/m3			10/07/22 15:26	6.14
2,2,4-Trimethylpentane	1.3	J D	5.7	1.0	ug/m3			10/07/22 15:26	6.14
Benzene	2.2	J D	3.9	1.5	ug/m3			10/07/22 15:26	6.14
1,2-Dichloroethane	5.0	U	5.0	3.7	ug/m3			10/07/22 15:26	6.14
n-Heptane	3.2	J D	5.0	1.5	ug/m3			10/07/22 15:26	6.14
Trichloroethene	31	D	1.2	0.79	ug/m3			10/07/22 15:26	6.14
Methyl methacrylate	13	U	13	4.0	ug/m3			10/07/22 15:26	6.14
1,2-Dichloropropane	5.7	U	5.7	2.5	ug/m3			10/07/22 15:26	6.14
1,4-Dioxane	110	U	110	38	ug/m3			10/07/22 15:26	6.14
Bromodichloromethane	8.2	U	8.2	1.6	ug/m3			10/07/22 15:26	6.14
cis-1,3-Dichloropropene	5.6	U	5.6	0.56	ug/m3			10/07/22 15:26	6.14
4-Methyl-2-pentanone (Methyl isobutyl ketone)	13	U	13	4.8	ug/m3			10/07/22 15:26	6.14
Toluene	11	D	4.6	2.2	ug/m3			10/07/22 15:26	6.14
trans-1,3-Dichloropropene	5.6	U	5.6	2.5	ug/m3			10/07/22 15:26	6.14
1,1,2-Trichloroethane	6.7	U	6.7	1.1	ug/m3			10/07/22 15:26	6.14
Tetrachloroethene	780	D	8.3	1.1	ug/m3			10/07/22 15:26	6.14
Methyl Butyl Ketone (2-Hexanone)	13	U	13	5.0	ug/m3			10/07/22 15:26	6.14
Dibromochloromethane	10	U	10	1.6	ug/m3			10/07/22 15:26	6.14
1,2-Dibromoethane	9.4	U	9.4	2.2	ug/m3			10/07/22 15:26	6.14
Chlorobenzene	5.7	U	5.7	1.2	ug/m3			10/07/22 15:26	6.14
Ethylbenzene	5.3	U	5.3	2.7	ug/m3			10/07/22 15:26	6.14
m,p-Xylene	5.1	J D	13	4.5	ug/m3			10/07/22 15:26	6.14
o-Xylene	5.3	U	5.3	2.5	ug/m3			10/07/22 15:26	6.14
Styrene	5.2	U	5.2	0.84	ug/m3			10/07/22 15:26	6.14
Bromoform	13	U	13	3.7	ug/m3			10/07/22 15:26	6.14
Cumene	6.0	U	6.0	1.1	ug/m3			10/07/22 15:26	6.14
1,1,2,2-Tetrachloroethane	8.4	U	8.4	1.8	ug/m3			10/07/22 15:26	6.14
n-Propylbenzene	6.0	U	6.0	1.4	ug/m3			10/07/22 15:26	6.14
4-Ethyltoluene	6.0	U	6.0	1.5	ug/m3			10/07/22 15:26	6.14
1,3,5-Trimethylbenzene	6.0	U	6.0	1.3	ug/m3			10/07/22 15:26	6.14
2-Chlorotoluene	6.4	U	6.4	1.5	ug/m3			10/07/22 15:26	6.14
tert-Butylbenzene	6.7	U	6.7	1.2	ug/m3			10/07/22 15:26	6.14
1,2,4-Trimethylbenzene	1.4	J D	6.0	1.4	ug/m3			10/07/22 15:26	6.14
sec-Butylbenzene	6.7	U	6.7	1.3	ug/m3			10/07/22 15:26	6.14
4-Isopropyltoluene	2.9	J D	6.7	1.3	ug/m3			10/07/22 15:26	6.14
1,3-Dichlorobenzene	7.4	U	7.4	3.3	ug/m3			10/07/22 15:26	6.14
1,4-Dichlorobenzene	7.4	U	7.4	3.5	ug/m3			10/07/22 15:26	6.14
Benzyl chloride	6.4	U *+	6.4	2.4	ug/m3			10/07/22 15:26	6.14

Client Sample ID: SV-01_20221004
Date Collected: 10/04/22 15:30
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	6.7	U	6.7	1.9	ug/m3			10/07/22 15:26	6.14
1,2-Dichlorobenzene	7.4	U	7.4	2.6	ug/m3			10/07/22 15:26	6.14
1,2,4-Trichlorobenzene	23	U	23	8.7	ug/m3			10/07/22 15:26	6.14
Hexachlorobutadiene	13	U	13	2.0	ug/m3			10/07/22 15:26	6.14
Naphthalene	16	U	16	5.5	ug/m3			10/07/22 15:26	6.14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.1	U	3.1	0.68	ppb v/v			10/07/22 15:26	6.14
Chlorodifluoromethane	**1.3**	**J D**	3.1	0.68	ppb v/v			10/07/22 15:26	6.14
1,2-Dichlorotetrafluoroethane	1.2	U	1.2	0.34	ppb v/v			10/07/22 15:26	6.14
Chloromethane	3.1	U	3.1	0.74	ppb v/v			10/07/22 15:26	6.14
n-Butane	**5.3**	**D**	3.1	1.2	ppb v/v			10/07/22 15:26	6.14
Vinyl chloride	0.48	U	0.48	0.17	ppb v/v			10/07/22 15:26	6.14
1,3-Butadiene	**1.9**	**D**	1.2	0.23	ppb v/v			10/07/22 15:26	6.14
Bromomethane	1.2	U	1.2	0.32	ppb v/v			10/07/22 15:26	6.14
Chloroethane	3.1	U	3.1	1.5	ppb v/v			10/07/22 15:26	6.14
Bromoethene(Vinyl Bromide)	1.2	U	1.2	0.52	ppb v/v			10/07/22 15:26	6.14
Trichlorofluoromethane	**0.34**	**J D**	1.2	0.32	ppb v/v			10/07/22 15:26	6.14
1,1,2-Trichlorotrifluoroethane	1.2	U	1.2	0.34	ppb v/v			10/07/22 15:26	6.14
1,1-Dichloroethene	0.31	U	0.31	0.18	ppb v/v			10/07/22 15:26	6.14
Acetone	**40**	**D**	31	12	ppb v/v			10/07/22 15:26	6.14
Isopropyl alcohol	**11**	**J D**	31	6.0	ppb v/v			10/07/22 15:26	6.14
Carbon disulfide	**1.5**	**J D**	3.1	0.80	ppb v/v			10/07/22 15:26	6.14
3-Chloropropene	3.1	U	3.1	0.68	ppb v/v			10/07/22 15:26	6.14
Methylene Chloride	**1.4**	**J D**	3.1	1.0	ppb v/v			10/07/22 15:26	6.14
tert-Butyl alcohol	31	U	31	7.4	ppb v/v			10/07/22 15:26	6.14
Methyl tert-butyl ether	1.2	U	1.2	0.49	ppb v/v			10/07/22 15:26	6.14
trans-1,2-Dichloroethene	1.2	U	1.2	0.54	ppb v/v			10/07/22 15:26	6.14
n-Hexane	3.1	U	3.1	1.4	ppb v/v			10/07/22 15:26	6.14
1,1-Dichloroethane	1.2	U	1.2	0.18	ppb v/v			10/07/22 15:26	6.14
Methyl Ethyl Ketone (2-Butanone)	**4.0**	**D**	3.1	1.0	ppb v/v			10/07/22 15:26	6.14
cis-1,2-Dichloroethene	**50**	**D**	0.31	0.20	ppb v/v			10/07/22 15:26	6.14
Chloroform	**1.9**	**D**	1.2	0.28	ppb v/v			10/07/22 15:26	6.14
Tetrahydrofuran	31	U	31	7.4	ppb v/v			10/07/22 15:26	6.14
1,1,1-Trichloroethane	1.2	U	1.2	0.24	ppb v/v			10/07/22 15:26	6.14
Cyclohexane	**0.34**	**J D**	1.2	0.21	ppb v/v			10/07/22 15:26	6.14
Carbon tetrachloride	0.21	U	0.21	0.20	ppb v/v			10/07/22 15:26	6.14
2,2,4-Trimethylpentane	**0.27**	**J D**	1.2	0.21	ppb v/v			10/07/22 15:26	6.14
Benzene	**0.69**	**J D**	1.2	0.45	ppb v/v			10/07/22 15:26	6.14
1,2-Dichloroethane	1.2	U	1.2	0.92	ppb v/v			10/07/22 15:26	6.14
n-Heptane	**0.78**	**J D**	1.2	0.36	ppb v/v			10/07/22 15:26	6.14
Trichloroethene	**5.7**	**D**	0.23	0.15	ppb v/v			10/07/22 15:26	6.14
Methyl methacrylate	3.1	U	3.1	0.98	ppb v/v			10/07/22 15:26	6.14
1,2-Dichloropropane	1.2	U	1.2	0.53	ppb v/v			10/07/22 15:26	6.14
1,4-Dioxane	31	U	31	10	ppb v/v			10/07/22 15:26	6.14
Bromodichloromethane	1.2	U	1.2	0.25	ppb v/v			10/07/22 15:26	6.14
cis-1,3-Dichloropropene	1.2	U	1.2	0.12	ppb v/v			10/07/22 15:26	6.14
4-Methyl-2-pentanone (Methyl isobutyl ketone)	3.1	U	3.1	1.2	ppb v/v			10/07/22 15:26	6.14

Client Sample ID: SV-01_20221004

Lab Sample ID: 200-65197-1

Date Collected: 10/04/22 15:30
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	2.9	D	1.2	0.57	ppb v/v			10/07/22 15:26	6.14
trans-1,3-Dichloropropene	1.2	U	1.2	0.55	ppb v/v			10/07/22 15:26	6.14
1,1,2-Trichloroethane	1.2	U	1.2	0.21	ppb v/v			10/07/22 15:26	6.14
Tetrachloroethene	120	D	1.2	0.17	ppb v/v			10/07/22 15:26	6.14
Methyl Butyl Ketone (2-Hexanone)	3.1	U	3.1	1.2	ppb v/v			10/07/22 15:26	6.14
Dibromochloromethane	1.2	U	1.2	0.19	ppb v/v			10/07/22 15:26	6.14
1,2-Dibromoethane	1.2	U	1.2	0.28	ppb v/v			10/07/22 15:26	6.14
Chlorobenzene	1.2	U	1.2	0.26	ppb v/v			10/07/22 15:26	6.14
Ethylbenzene	1.2	U	1.2	0.61	ppb v/v			10/07/22 15:26	6.14
m,p-Xylene	1.2	J D	3.1	1.0	ppb v/v			10/07/22 15:26	6.14
o-Xylene	1.2	U	1.2	0.58	ppb v/v			10/07/22 15:26	6.14
Styrene	1.2	U	1.2	0.20	ppb v/v			10/07/22 15:26	6.14
Bromoform	1.2	U	1.2	0.36	ppb v/v			10/07/22 15:26	6.14
Cumene	1.2	U	1.2	0.23	ppb v/v			10/07/22 15:26	6.14
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.26	ppb v/v			10/07/22 15:26	6.14
n-Propylbenzene	1.2	U	1.2	0.29	ppb v/v			10/07/22 15:26	6.14
4-Ethyltoluene	1.2	U	1.2	0.31	ppb v/v			10/07/22 15:26	6.14
1,3,5-Trimethylbenzene	1.2	U	1.2	0.27	ppb v/v			10/07/22 15:26	6.14
2-Chlorotoluene	1.2	U	1.2	0.29	ppb v/v			10/07/22 15:26	6.14
tert-Butylbenzene	1.2	U	1.2	0.23	ppb v/v			10/07/22 15:26	6.14
1,2,4-Trimethylbenzene	0.29	J D	1.2	0.29	ppb v/v			10/07/22 15:26	6.14
sec-Butylbenzene	1.2	U	1.2	0.24	ppb v/v			10/07/22 15:26	6.14
4-Isopropyltoluene	0.53	J D	1.2	0.24	ppb v/v			10/07/22 15:26	6.14
1,3-Dichlorobenzene	1.2	U	1.2	0.55	ppb v/v			10/07/22 15:26	6.14
1,4-Dichlorobenzene	1.2	U	1.2	0.58	ppb v/v			10/07/22 15:26	6.14
Benzyl chloride	1.2	U *+	1.2	0.45	ppb v/v			10/07/22 15:26	6.14
n-Butylbenzene	1.2	U	1.2	0.34	ppb v/v			10/07/22 15:26	6.14
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ppb v/v			10/07/22 15:26	6.14
1,2,4-Trichlorobenzene	3.1	U	3.1	1.2	ppb v/v			10/07/22 15:26	6.14
Hexachlorobutadiene	1.2	U	1.2	0.19	ppb v/v			10/07/22 15:26	6.14
Naphthalene	3.1	U	3.1	1.0	ppb v/v			10/07/22 15:26	6.14

Client Sample ID: SV-03_20221004

Lab Sample ID: 200-65197-2

Date Collected: 10/04/22 11:00
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3			10/07/22 16:19	1
Chlorodifluoromethane	8.3		1.8	0.39	ug/m3			10/07/22 16:19	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 16:19	1
Chloromethane	0.41	J	1.0	0.25	ug/m3			10/07/22 16:19	1
n-Butane	9.9		1.2	0.45	ug/m3			10/07/22 16:19	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 16:19	1
1,3-Butadiene	2.6		0.44	0.084	ug/m3			10/07/22 16:19	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 16:19	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 16:19	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 16:19	1

Client Sample ID: SV-03_20221004
Date Collected: 10/04/22 11:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.4		1.1	0.29	ug/m3			10/07/22 16:19	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/07/22 16:19	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 16:19	1
Acetone	82		12	4.8	ug/m3			10/07/22 16:19	1
Isopropyl alcohol	24		12	2.4	ug/m3			10/07/22 16:19	1
Carbon disulfide	2.3		1.6	0.40	ug/m3			10/07/22 16:19	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 16:19	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/07/22 16:19	1
tert-Butyl alcohol	36		15	3.6	ug/m3			10/07/22 16:19	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 16:19	1
trans-1,2-Dichloroethene	0.61	J	0.79	0.35	ug/m3			10/07/22 16:19	1
n-Hexane	3.3		1.8	0.81	ug/m3			10/07/22 16:19	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 16:19	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.50	ug/m3			10/07/22 16:19	1
cis-1,2-Dichloroethene	96		0.20	0.13	ug/m3			10/07/22 16:19	1
Chloroform	9.5		0.98	0.22	ug/m3			10/07/22 16:19	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 16:19	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 16:19	1
Cyclohexane	0.65	J	0.69	0.12	ug/m3			10/07/22 16:19	1
Carbon tetrachloride	0.26		0.22	0.20	ug/m3			10/07/22 16:19	1
2,2,4-Trimethylpentane	3.3		0.93	0.16	ug/m3			10/07/22 16:19	1
Benzene	2.2		0.64	0.24	ug/m3			10/07/22 16:19	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 16:19	1
n-Heptane	2.5		0.82	0.24	ug/m3			10/07/22 16:19	1
Trichloroethene	45		0.20	0.13	ug/m3			10/07/22 16:19	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 16:19	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 16:19	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 16:19	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 16:19	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 16:19	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.3	J	2.0	0.78	ug/m3			10/07/22 16:19	1
Toluene	6.1		0.75	0.35	ug/m3			10/07/22 16:19	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 16:19	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 16:19	1
Tetrachloroethene	130		1.4	0.18	ug/m3			10/07/22 16:19	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 16:19	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 16:19	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 16:19	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 16:19	1
Ethylbenzene	2.2		0.87	0.43	ug/m3			10/07/22 16:19	1
m,p-Xylene	8.5		2.2	0.74	ug/m3			10/07/22 16:19	1
o-Xylene	2.4		0.87	0.41	ug/m3			10/07/22 16:19	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/07/22 16:19	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 16:19	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/07/22 16:19	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 16:19	1
n-Propylbenzene	0.27	J	0.98	0.23	ug/m3			10/07/22 16:19	1
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3			10/07/22 16:19	1

Client Sample ID: SV-03_20221004
Date Collected: 10/04/22 11:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.39	J	0.98	0.22	ug/m3			10/07/22 16:19	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 16:19	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 16:19	1
1,2,4-Trimethylbenzene	1.6		0.98	0.23	ug/m3			10/07/22 16:19	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 16:19	1
4-Isopropyltoluene	1.9		1.1	0.21	ug/m3			10/07/22 16:19	1
1,3-Dichlorobenzene	1.5		1.2	0.54	ug/m3			10/07/22 16:19	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 16:19	1
Benzyl chloride	1.0	U *+	1.0	0.38	ug/m3			10/07/22 16:19	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 16:19	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 16:19	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 16:19	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 16:19	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 16:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.46	J	0.50	0.11	ppb v/v			10/07/22 16:19	1
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v			10/07/22 16:19	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 16:19	1
Chloromethane	0.20	J	0.50	0.12	ppb v/v			10/07/22 16:19	1
n-Butane	4.2		0.50	0.19	ppb v/v			10/07/22 16:19	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 16:19	1
1,3-Butadiene	1.2		0.20	0.038	ppb v/v			10/07/22 16:19	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 16:19	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 16:19	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 16:19	1
Trichlorofluoromethane	0.25		0.20	0.052	ppb v/v			10/07/22 16:19	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 16:19	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 16:19	1
Acetone	34		5.0	2.0	ppb v/v			10/07/22 16:19	1
Isopropyl alcohol	9.6		5.0	0.98	ppb v/v			10/07/22 16:19	1
Carbon disulfide	0.75		0.50	0.13	ppb v/v			10/07/22 16:19	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 16:19	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/07/22 16:19	1
tert-Butyl alcohol	12		5.0	1.2	ppb v/v			10/07/22 16:19	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 16:19	1
trans-1,2-Dichloroethene	0.15	J	0.20	0.088	ppb v/v			10/07/22 16:19	1
n-Hexane	0.93		0.50	0.23	ppb v/v			10/07/22 16:19	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 16:19	1
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.17	ppb v/v			10/07/22 16:19	1
cis-1,2-Dichloroethene	24		0.050	0.033	ppb v/v			10/07/22 16:19	1
Chloroform	2.0		0.20	0.046	ppb v/v			10/07/22 16:19	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 16:19	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 16:19	1
Cyclohexane	0.19	J	0.20	0.035	ppb v/v			10/07/22 16:19	1
Carbon tetrachloride	0.042		0.035	0.032	ppb v/v			10/07/22 16:19	1
2,2,4-Trimethylpentane	0.71		0.20	0.035	ppb v/v			10/07/22 16:19	1
Benzene	0.69		0.20	0.074	ppb v/v			10/07/22 16:19	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 16:19	1

Client Sample ID: SV-03_20221004

Lab Sample ID: 200-65197-2

Date Collected: 10/04/22 11:00
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	0.61		0.20	0.059	ppb v/v			10/07/22 16:19	1
Trichloroethene	8.4		0.037	0.024	ppb v/v			10/07/22 16:19	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 16:19	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 16:19	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 16:19	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 16:19	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 16:19	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.31	J	0.50	0.19	ppb v/v			10/07/22 16:19	1
Toluene	1.6		0.20	0.093	ppb v/v			10/07/22 16:19	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 16:19	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 16:19	1
Tetrachloroethene	19		0.20	0.027	ppb v/v			10/07/22 16:19	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 16:19	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 16:19	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 16:19	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 16:19	1
Ethylbenzene	0.51		0.20	0.10	ppb v/v			10/07/22 16:19	1
m,p-Xylene	1.9		0.50	0.17	ppb v/v			10/07/22 16:19	1
o-Xylene	0.56		0.20	0.094	ppb v/v			10/07/22 16:19	1
Styrene	0.20	U	0.20	0.032	ppb v/v			10/07/22 16:19	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 16:19	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/07/22 16:19	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 16:19	1
n-Propylbenzene	0.054	J	0.20	0.047	ppb v/v			10/07/22 16:19	1
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v			10/07/22 16:19	1
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v			10/07/22 16:19	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 16:19	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 16:19	1
1,2,4-Trimethylbenzene	0.32		0.20	0.047	ppb v/v			10/07/22 16:19	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 16:19	1
4-Isopropyltoluene	0.35		0.20	0.039	ppb v/v			10/07/22 16:19	1
1,3-Dichlorobenzene	0.25		0.20	0.089	ppb v/v			10/07/22 16:19	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 16:19	1
Benzyl chloride	0.20	U *+	0.20	0.074	ppb v/v			10/07/22 16:19	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 16:19	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 16:19	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 16:19	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 16:19	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 16:19	1

Client Sample ID: SV-05_20221004

Lab Sample ID: 200-65197-3

Date Collected: 10/04/22 14:00
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodifluoromethane	2.2		1.8	0.39	ug/m3			10/07/22 17:11	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 17:11	1
Chloromethane	0.27	J	1.0	0.25	ug/m3			10/07/22 17:11	1
n-Butane	25		1.2	0.45	ug/m3			10/07/22 17:11	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 17:11	1
1,3-Butadiene	6.6		0.44	0.084	ug/m3			10/07/22 17:11	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 17:11	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 17:11	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 17:11	1
Trichlorofluoromethane	3.3		1.1	0.29	ug/m3			10/07/22 17:11	1
1,1,2-Trichlorotrifluoroethane	0.56	J	1.5	0.42	ug/m3			10/07/22 17:11	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 17:11	1
Acetone	87		12	4.8	ug/m3			10/07/22 17:11	1
Isopropyl alcohol	11	J	12	2.4	ug/m3			10/07/22 17:11	1
Carbon disulfide	5.4		1.6	0.40	ug/m3			10/07/22 17:11	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 17:11	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/07/22 17:11	1
tert-Butyl alcohol	28		15	3.6	ug/m3			10/07/22 17:11	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 17:11	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/07/22 17:11	1
n-Hexane	7.0		1.8	0.81	ug/m3			10/07/22 17:11	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 17:11	1
Methyl Ethyl Ketone (2-Butanone)	11		1.5	0.50	ug/m3			10/07/22 17:11	1
cis-1,2-Dichloroethene	45		0.20	0.13	ug/m3			10/07/22 17:11	1
Chloroform	27		0.98	0.22	ug/m3			10/07/22 17:11	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 17:11	1
1,1,1-Trichloroethane	0.33	J	1.1	0.21	ug/m3			10/07/22 17:11	1
Cyclohexane	2.0		0.69	0.12	ug/m3			10/07/22 17:11	1
Carbon tetrachloride	0.28		0.22	0.20	ug/m3			10/07/22 17:11	1
2,2,4-Trimethylpentane	3.5		0.93	0.16	ug/m3			10/07/22 17:11	1
Benzene	3.9		0.64	0.24	ug/m3			10/07/22 17:11	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 17:11	1
n-Heptane	5.8		0.82	0.24	ug/m3			10/07/22 17:11	1
Trichloroethene	25		0.20	0.13	ug/m3			10/07/22 17:11	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 17:11	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 17:11	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 17:11	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 17:11	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 17:11	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.7	J	2.0	0.78	ug/m3			10/07/22 17:11	1
Toluene	5.8		0.75	0.35	ug/m3			10/07/22 17:11	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 17:11	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 17:11	1
Tetrachloroethene	380	E	1.4	0.18	ug/m3			10/07/22 17:11	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 17:11	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 17:11	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 17:11	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	2.9		0.87	0.43	ug/m3			10/07/22 17:11	1
m,p-Xylene	9.0		2.2	0.74	ug/m3			10/07/22 17:11	1
o-Xylene	2.6		0.87	0.41	ug/m3			10/07/22 17:11	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/07/22 17:11	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 17:11	1
Cumene	0.39	J	0.98	0.18	ug/m3			10/07/22 17:11	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 17:11	1
n-Propylbenzene	0.28	J	0.98	0.23	ug/m3			10/07/22 17:11	1
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3			10/07/22 17:11	1
1,3,5-Trimethylbenzene	0.38	J	0.98	0.22	ug/m3			10/07/22 17:11	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 17:11	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 17:11	1
1,2,4-Trimethylbenzene	1.5		0.98	0.23	ug/m3			10/07/22 17:11	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 17:11	1
4-Isopropyltoluene	3.6		1.1	0.21	ug/m3			10/07/22 17:11	1
1,3-Dichlorobenzene	2.6		1.2	0.54	ug/m3			10/07/22 17:11	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 17:11	1
Benzyl chloride	1.0	U *+	1.0	0.38	ug/m3			10/07/22 17:11	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 17:11	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 17:11	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 17:11	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 17:11	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 17:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.47	J	0.50	0.11	ppb v/v			10/07/22 17:11	1
Chlorodifluoromethane	0.62		0.50	0.11	ppb v/v			10/07/22 17:11	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 17:11	1
Chloromethane	0.13	J	0.50	0.12	ppb v/v			10/07/22 17:11	1
n-Butane	11		0.50	0.19	ppb v/v			10/07/22 17:11	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 17:11	1
1,3-Butadiene	3.0		0.20	0.038	ppb v/v			10/07/22 17:11	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 17:11	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 17:11	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 17:11	1
Trichlorofluoromethane	0.60		0.20	0.052	ppb v/v			10/07/22 17:11	1
1,1,2-Trichlorotrifluoroethane	0.074	J	0.20	0.055	ppb v/v			10/07/22 17:11	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 17:11	1
Acetone	36		5.0	2.0	ppb v/v			10/07/22 17:11	1
Isopropyl alcohol	4.3	J	5.0	0.98	ppb v/v			10/07/22 17:11	1
Carbon disulfide	1.7		0.50	0.13	ppb v/v			10/07/22 17:11	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 17:11	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/07/22 17:11	1
tert-Butyl alcohol	9.4		5.0	1.2	ppb v/v			10/07/22 17:11	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 17:11	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/07/22 17:11	1
n-Hexane	2.0		0.50	0.23	ppb v/v			10/07/22 17:11	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 17:11	1
Methyl Ethyl Ketone (2-Butanone)	3.9		0.50	0.17	ppb v/v			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	11		0.050	0.033	ppb v/v			10/07/22 17:11	1
Chloroform	5.5		0.20	0.046	ppb v/v			10/07/22 17:11	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 17:11	1
1,1,1-Trichloroethane	0.061	J	0.20	0.039	ppb v/v			10/07/22 17:11	1
Cyclohexane	0.59		0.20	0.035	ppb v/v			10/07/22 17:11	1
Carbon tetrachloride	0.044		0.035	0.032	ppb v/v			10/07/22 17:11	1
2,2,4-Trimethylpentane	0.75		0.20	0.035	ppb v/v			10/07/22 17:11	1
Benzene	1.2		0.20	0.074	ppb v/v			10/07/22 17:11	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 17:11	1
n-Heptane	1.4		0.20	0.059	ppb v/v			10/07/22 17:11	1
Trichloroethene	4.7		0.037	0.024	ppb v/v			10/07/22 17:11	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 17:11	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 17:11	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 17:11	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 17:11	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 17:11	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.41	J	0.50	0.19	ppb v/v			10/07/22 17:11	1
Toluene	1.5		0.20	0.093	ppb v/v			10/07/22 17:11	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 17:11	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 17:11	1
Tetrachloroethene	57	E	0.20	0.027	ppb v/v			10/07/22 17:11	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 17:11	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 17:11	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 17:11	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 17:11	1
Ethylbenzene	0.66		0.20	0.10	ppb v/v			10/07/22 17:11	1
m,p-Xylene	2.1		0.50	0.17	ppb v/v			10/07/22 17:11	1
o-Xylene	0.60		0.20	0.094	ppb v/v			10/07/22 17:11	1
Styrene	0.20	U	0.20	0.032	ppb v/v			10/07/22 17:11	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 17:11	1
Cumene	0.080	J	0.20	0.037	ppb v/v			10/07/22 17:11	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 17:11	1
n-Propylbenzene	0.056	J	0.20	0.047	ppb v/v			10/07/22 17:11	1
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v			10/07/22 17:11	1
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v			10/07/22 17:11	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 17:11	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 17:11	1
1,2,4-Trimethylbenzene	0.31		0.20	0.047	ppb v/v			10/07/22 17:11	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 17:11	1
4-Isopropyltoluene	0.65		0.20	0.039	ppb v/v			10/07/22 17:11	1
1,3-Dichlorobenzene	0.44		0.20	0.089	ppb v/v			10/07/22 17:11	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 17:11	1
Benzyl chloride	0.20	U *+	0.20	0.074	ppb v/v			10/07/22 17:11	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 17:11	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 17:11	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 17:11	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 17:11	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.4	J D	4.9	1.1	ug/m3			10/07/22 18:03	2
Chlorodifluoromethane	2.3	J D	3.5	0.78	ug/m3			10/07/22 18:03	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.77	ug/m3			10/07/22 18:03	2
Chloromethane	2.1	U	2.1	0.50	ug/m3			10/07/22 18:03	2
n-Butane	26	D	2.4	0.90	ug/m3			10/07/22 18:03	2
Vinyl chloride	0.40	U	0.40	0.14	ug/m3			10/07/22 18:03	2
1,3-Butadiene	7.0	D	0.88	0.17	ug/m3			10/07/22 18:03	2
Bromomethane	1.6	U	1.6	0.40	ug/m3			10/07/22 18:03	2
Chloroethane	2.6	U	2.6	1.3	ug/m3			10/07/22 18:03	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.74	ug/m3			10/07/22 18:03	2
Trichlorofluoromethane	3.4	D	2.2	0.58	ug/m3			10/07/22 18:03	2
1,1,2-Trichlorotrifluoroethane	3.1	U	3.1	0.84	ug/m3			10/07/22 18:03	2
1,1-Dichloroethene	0.40	U	0.40	0.23	ug/m3			10/07/22 18:03	2
Acetone	87	D	24	9.5	ug/m3			10/07/22 18:03	2
Isopropyl alcohol	10	J D	25	4.8	ug/m3			10/07/22 18:03	2
Carbon disulfide	5.4	D	3.1	0.81	ug/m3			10/07/22 18:03	2
3-Chloropropene	3.1	U	3.1	0.69	ug/m3			10/07/22 18:03	2
Methylene Chloride	3.5	U	3.5	1.2	ug/m3			10/07/22 18:03	2
tert-Butyl alcohol	28	J D	30	7.3	ug/m3			10/07/22 18:03	2
Methyl tert-butyl ether	1.4	U	1.4	0.58	ug/m3			10/07/22 18:03	2
trans-1,2-Dichloroethene	1.6	U	1.6	0.70	ug/m3			10/07/22 18:03	2
n-Hexane	7.0	D	3.5	1.6	ug/m3			10/07/22 18:03	2
1,1-Dichloroethane	1.6	U	1.6	0.23	ug/m3			10/07/22 18:03	2
Methyl Ethyl Ketone (2-Butanone)	11	D	2.9	1.0	ug/m3			10/07/22 18:03	2
cis-1,2-Dichloroethene	45	D	0.40	0.26	ug/m3			10/07/22 18:03	2
Chloroform	27	D	2.0	0.45	ug/m3			10/07/22 18:03	2
Tetrahydrofuran	29	U	29	7.1	ug/m3			10/07/22 18:03	2
1,1,1-Trichloroethane	2.2	U	2.2	0.43	ug/m3			10/07/22 18:03	2
Cyclohexane	2.0	D	1.4	0.24	ug/m3			10/07/22 18:03	2
Carbon tetrachloride	0.44	U	0.44	0.40	ug/m3			10/07/22 18:03	2
2,2,4-Trimethylpentane	3.5	D	1.9	0.33	ug/m3			10/07/22 18:03	2
Benzene	4.0	D	1.3	0.47	ug/m3			10/07/22 18:03	2
1,2-Dichloroethane	1.6	U	1.6	1.2	ug/m3			10/07/22 18:03	2
n-Heptane	5.7	D	1.6	0.48	ug/m3			10/07/22 18:03	2
Trichloroethene	25	D	0.40	0.26	ug/m3			10/07/22 18:03	2
Methyl methacrylate	4.1	U	4.1	1.3	ug/m3			10/07/22 18:03	2
1,2-Dichloropropane	1.8	U	1.8	0.80	ug/m3			10/07/22 18:03	2
1,4-Dioxane	36	U	36	12	ug/m3			10/07/22 18:03	2
Bromodichloromethane	2.7	U	2.7	0.54	ug/m3			10/07/22 18:03	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.18	ug/m3			10/07/22 18:03	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	4.1	U	4.1	1.6	ug/m3			10/07/22 18:03	2
Toluene	5.8	D	1.5	0.70	ug/m3			10/07/22 18:03	2
trans-1,3-Dichloropropene	1.8	U	1.8	0.81	ug/m3			10/07/22 18:03	2
1,1,2-Trichloroethane	2.2	U	2.2	0.37	ug/m3			10/07/22 18:03	2
Tetrachloroethene	390	D	2.7	0.37	ug/m3			10/07/22 18:03	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	1.6	ug/m3			10/07/22 18:03	2
Dibromochloromethane	3.4	U	3.4	0.53	ug/m3			10/07/22 18:03	2
1,2-Dibromoethane	3.1	U	3.1	0.71	ug/m3			10/07/22 18:03	2

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.8	U	1.8	0.40	ug/m3			10/07/22 18:03	2
Ethylbenzene	**2.8**	**D**	1.7	0.87	ug/m3			10/07/22 18:03	2
m,p-Xylene	**8.6**	**D**	4.3	1.5	ug/m3			10/07/22 18:03	2
o-Xylene	**2.6**	**D**	1.7	0.82	ug/m3			10/07/22 18:03	2
Styrene	1.7	U	1.7	0.27	ug/m3			10/07/22 18:03	2
Bromoform	4.1	U	4.1	1.2	ug/m3			10/07/22 18:03	2
Cumene	2.0	U	2.0	0.36	ug/m3			10/07/22 18:03	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	0.59	ug/m3			10/07/22 18:03	2
n-Propylbenzene	2.0	U	2.0	0.46	ug/m3			10/07/22 18:03	2
4-Ethyltoluene	2.0	U	2.0	0.50	ug/m3			10/07/22 18:03	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.43	ug/m3			10/07/22 18:03	2
2-Chlorotoluene	2.1	U	2.1	0.50	ug/m3			10/07/22 18:03	2
tert-Butylbenzene	2.2	U	2.2	0.41	ug/m3			10/07/22 18:03	2
1,2,4-Trimethylbenzene	**1.4**	**J D**	2.0	0.46	ug/m3			10/07/22 18:03	2
sec-Butylbenzene	2.2	U	2.2	0.43	ug/m3			10/07/22 18:03	2
4-Isopropyltoluene	**3.5**	**D**	2.2	0.43	ug/m3			10/07/22 18:03	2
1,3-Dichlorobenzene	**2.6**	**D**	2.4	1.1	ug/m3			10/07/22 18:03	2
1,4-Dichlorobenzene	2.4	U	2.4	1.1	ug/m3			10/07/22 18:03	2
Benzyl chloride	2.1	U *+	2.1	0.77	ug/m3			10/07/22 18:03	2
n-Butylbenzene	2.2	U	2.2	0.60	ug/m3			10/07/22 18:03	2
1,2-Dichlorobenzene	2.4	U	2.4	0.84	ug/m3			10/07/22 18:03	2
1,2,4-Trichlorobenzene	7.4	U	7.4	2.8	ug/m3			10/07/22 18:03	2
Hexachlorobutadiene	4.3	U	4.3	0.66	ug/m3			10/07/22 18:03	2
Naphthalene	5.2	U	5.2	1.8	ug/m3			10/07/22 18:03	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.49**	**J D**	1.0	0.22	ppb v/v			10/07/22 18:03	2
Chlorodifluoromethane	**0.65**	**J D**	1.0	0.22	ppb v/v			10/07/22 18:03	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.11	ppb v/v			10/07/22 18:03	2
Chloromethane	1.0	U	1.0	0.24	ppb v/v			10/07/22 18:03	2
n-Butane	**11**	**D**	1.0	0.38	ppb v/v			10/07/22 18:03	2
Vinyl chloride	0.16	U	0.16	0.056	ppb v/v			10/07/22 18:03	2
1,3-Butadiene	**3.1**	**D**	0.40	0.076	ppb v/v			10/07/22 18:03	2
Bromomethane	0.40	U	0.40	0.10	ppb v/v			10/07/22 18:03	2
Chloroethane	1.0	U	1.0	0.50	ppb v/v			10/07/22 18:03	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.17	ppb v/v			10/07/22 18:03	2
Trichlorofluoromethane	**0.61**	**D**	0.40	0.10	ppb v/v			10/07/22 18:03	2
1,1,2-Trichlorotrifluoroethane	0.40	U	0.40	0.11	ppb v/v			10/07/22 18:03	2
1,1-Dichloroethene	0.10	U	0.10	0.058	ppb v/v			10/07/22 18:03	2
Acetone	**36**	**D**	10	4.0	ppb v/v			10/07/22 18:03	2
Isopropyl alcohol	**4.3**	**J D**	10	2.0	ppb v/v			10/07/22 18:03	2
Carbon disulfide	**1.7**	**D**	1.0	0.26	ppb v/v			10/07/22 18:03	2
3-Chloropropene	1.0	U	1.0	0.22	ppb v/v			10/07/22 18:03	2
Methylene Chloride	1.0	U	1.0	0.34	ppb v/v			10/07/22 18:03	2
tert-Butyl alcohol	**9.3**	**J D**	10	2.4	ppb v/v			10/07/22 18:03	2
Methyl tert-butyl ether	0.40	U	0.40	0.16	ppb v/v			10/07/22 18:03	2
trans-1,2-Dichloroethene	0.40	U	0.40	0.18	ppb v/v			10/07/22 18:03	2
n-Hexane	**2.0**	**D**	1.0	0.46	ppb v/v			10/07/22 18:03	2
1,1-Dichloroethane	0.40	U	0.40	0.058	ppb v/v			10/07/22 18:03	2

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	3.8	D	1.0	0.34	ppb v/v			10/07/22 18:03	2
cis-1,2-Dichloroethene	11	D	0.10	0.066	ppb v/v			10/07/22 18:03	2
Chloroform	5.5	D	0.40	0.092	ppb v/v			10/07/22 18:03	2
Tetrahydrofuran	10	U	10	2.4	ppb v/v			10/07/22 18:03	2
1,1,1-Trichloroethane	0.40	U	0.40	0.078	ppb v/v			10/07/22 18:03	2
Cyclohexane	0.59	D	0.40	0.070	ppb v/v			10/07/22 18:03	2
Carbon tetrachloride	0.070	U	0.070	0.064	ppb v/v			10/07/22 18:03	2
2,2,4-Trimethylpentane	0.74	D	0.40	0.070	ppb v/v			10/07/22 18:03	2
Benzene	1.2	D	0.40	0.15	ppb v/v			10/07/22 18:03	2
1,2-Dichloroethane	0.40	U	0.40	0.30	ppb v/v			10/07/22 18:03	2
n-Heptane	1.4	D	0.40	0.12	ppb v/v			10/07/22 18:03	2
Trichloroethene	4.7	D	0.074	0.048	ppb v/v			10/07/22 18:03	2
Methyl methacrylate	1.0	U	1.0	0.32	ppb v/v			10/07/22 18:03	2
1,2-Dichloropropane	0.40	U	0.40	0.17	ppb v/v			10/07/22 18:03	2
1,4-Dioxane	10	U	10	3.4	ppb v/v			10/07/22 18:03	2
Bromodichloromethane	0.40	U	0.40	0.080	ppb v/v			10/07/22 18:03	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.040	ppb v/v			10/07/22 18:03	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	U	1.0	0.38	ppb v/v			10/07/22 18:03	2
Toluene	1.5	D	0.40	0.19	ppb v/v			10/07/22 18:03	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.18	ppb v/v			10/07/22 18:03	2
1,1,2-Trichloroethane	0.40	U	0.40	0.068	ppb v/v			10/07/22 18:03	2
Tetrachloroethene	58	D	0.40	0.054	ppb v/v			10/07/22 18:03	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.40	ppb v/v			10/07/22 18:03	2
Dibromochloromethane	0.40	U	0.40	0.062	ppb v/v			10/07/22 18:03	2
1,2-Dibromoethane	0.40	U	0.40	0.092	ppb v/v			10/07/22 18:03	2
Chlorobenzene	0.40	U	0.40	0.086	ppb v/v			10/07/22 18:03	2
Ethylbenzene	0.65	D	0.40	0.20	ppb v/v			10/07/22 18:03	2
m,p-Xylene	2.0	D	1.0	0.34	ppb v/v			10/07/22 18:03	2
o-Xylene	0.59	D	0.40	0.19	ppb v/v			10/07/22 18:03	2
Styrene	0.40	U	0.40	0.064	ppb v/v			10/07/22 18:03	2
Bromoform	0.40	U	0.40	0.12	ppb v/v			10/07/22 18:03	2
Cumene	0.40	U	0.40	0.074	ppb v/v			10/07/22 18:03	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.086	ppb v/v			10/07/22 18:03	2
n-Propylbenzene	0.40	U	0.40	0.094	ppb v/v			10/07/22 18:03	2
4-Ethyltoluene	0.40	U	0.40	0.10	ppb v/v			10/07/22 18:03	2
1,3,5-Trimethylbenzene	0.40	U	0.40	0.088	ppb v/v			10/07/22 18:03	2
2-Chlorotoluene	0.40	U	0.40	0.096	ppb v/v			10/07/22 18:03	2
tert-Butylbenzene	0.40	U	0.40	0.074	ppb v/v			10/07/22 18:03	2
1,2,4-Trimethylbenzene	0.29	J D	0.40	0.094	ppb v/v			10/07/22 18:03	2
sec-Butylbenzene	0.40	U	0.40	0.078	ppb v/v			10/07/22 18:03	2
4-Isopropyltoluene	0.64	D	0.40	0.078	ppb v/v			10/07/22 18:03	2
1,3-Dichlorobenzene	0.44	D	0.40	0.18	ppb v/v			10/07/22 18:03	2
1,4-Dichlorobenzene	0.40	U	0.40	0.19	ppb v/v			10/07/22 18:03	2
Benzyl chloride	0.40	U *+	0.40	0.15	ppb v/v			10/07/22 18:03	2
n-Butylbenzene	0.40	U	0.40	0.11	ppb v/v			10/07/22 18:03	2
1,2-Dichlorobenzene	0.40	U	0.40	0.14	ppb v/v			10/07/22 18:03	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.38	ppb v/v			10/07/22 18:03	2
Hexachlorobutadiene	0.40	U	0.40	0.062	ppb v/v			10/07/22 18:03	2

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.0	U	1.0	0.34	ppb v/v			10/07/22 18:03	2

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	0.54	ug/m3			10/06/22 10:05	1
Chlorodifluoromethane	1.8	U	1.8	0.39	ug/m3			10/06/22 10:05	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/06/22 10:05	1
Chloromethane	1.0	U	1.0	0.25	ug/m3			10/06/22 10:05	1
n-Butane	1.2	U	1.2	0.45	ug/m3			10/06/22 10:05	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/06/22 10:05	1
1,3-Butadiene	0.44	U	0.44	0.084	ug/m3			10/06/22 10:05	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/06/22 10:05	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/06/22 10:05	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/06/22 10:05	1
Trichlorofluoromethane	1.1	U	1.1	0.29	ug/m3			10/06/22 10:05	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/06/22 10:05	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/06/22 10:05	1
Acetone	12	U	12	4.8	ug/m3			10/06/22 10:05	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			10/06/22 10:05	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			10/06/22 10:05	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/06/22 10:05	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/06/22 10:05	1
tert-Butyl alcohol	15	U	15	3.6	ug/m3			10/06/22 10:05	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/06/22 10:05	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/06/22 10:05	1
n-Hexane	1.8	U	1.8	0.81	ug/m3			10/06/22 10:05	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/06/22 10:05	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.50	ug/m3			10/06/22 10:05	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			10/06/22 10:05	1
Chloroform	0.98	U	0.98	0.22	ug/m3			10/06/22 10:05	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/06/22 10:05	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/06/22 10:05	1
Cyclohexane	0.69	U	0.69	0.12	ug/m3			10/06/22 10:05	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			10/06/22 10:05	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.16	ug/m3			10/06/22 10:05	1
Benzene	0.64	U	0.64	0.24	ug/m3			10/06/22 10:05	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/06/22 10:05	1
n-Heptane	0.82	U	0.82	0.24	ug/m3			10/06/22 10:05	1
Trichloroethene	0.20	U	0.20	0.13	ug/m3			10/06/22 10:05	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/06/22 10:05	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/06/22 10:05	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/06/22 10:05	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/06/22 10:05	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/06/22 10:05	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			10/06/22 10:05	1
Toluene	0.75	U	0.75	0.35	ug/m3			10/06/22 10:05	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/06/22 10:05	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/06/22 10:05	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			10/06/22 10:05	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/06/22 10:05	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/06/22 10:05	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/06/22 10:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/06/22 10:05	1
Ethylbenzene	0.87	U	0.87	0.43	ug/m3			10/06/22 10:05	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			10/06/22 10:05	1
o-Xylene	0.87	U	0.87	0.41	ug/m3			10/06/22 10:05	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/06/22 10:05	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/06/22 10:05	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/06/22 10:05	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/06/22 10:05	1
n-Propylbenzene	0.98	U	0.98	0.23	ug/m3			10/06/22 10:05	1
4-Ethyltoluene	0.98	U	0.98	0.25	ug/m3			10/06/22 10:05	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			10/06/22 10:05	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/06/22 10:05	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/06/22 10:05	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			10/06/22 10:05	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/06/22 10:05	1
4-Isopropyltoluene	1.1	U	1.1	0.21	ug/m3			10/06/22 10:05	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			10/06/22 10:05	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/06/22 10:05	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/06/22 10:05	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/06/22 10:05	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/06/22 10:05	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/06/22 10:05	1
Hexachlorobutadiene	0.368	J	2.1	0.33	ug/m3			10/06/22 10:05	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/06/22 10:05	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/06/22 10:05	1
Chlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/06/22 10:05	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 10:05	1
Chloromethane	0.50	U	0.50	0.12	ppb v/v			10/06/22 10:05	1
n-Butane	0.50	U	0.50	0.19	ppb v/v			10/06/22 10:05	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/06/22 10:05	1
1,3-Butadiene	0.20	U	0.20	0.038	ppb v/v			10/06/22 10:05	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/06/22 10:05	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/06/22 10:05	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/06/22 10:05	1
Trichlorofluoromethane	0.20	U	0.20	0.052	ppb v/v			10/06/22 10:05	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 10:05	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/06/22 10:05	1
Acetone	5.0	U	5.0	2.0	ppb v/v			10/06/22 10:05	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			10/06/22 10:05	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			10/06/22 10:05	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/06/22 10:05	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1
tert-Butyl alcohol	5.0	U	5.0	1.2	ppb v/v			10/06/22 10:05	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/06/22 10:05	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/06/22 10:05	1
n-Hexane	0.50	U	0.50	0.23	ppb v/v			10/06/22 10:05	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/06/22 10:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			10/06/22 10:05	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			10/06/22 10:05	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/06/22 10:05	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/06/22 10:05	1
Cyclohexane	0.20	U	0.20	0.035	ppb v/v			10/06/22 10:05	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			10/06/22 10:05	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.035	ppb v/v			10/06/22 10:05	1
Benzene	0.20	U	0.20	0.074	ppb v/v			10/06/22 10:05	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/06/22 10:05	1
n-Heptane	0.20	U	0.20	0.059	ppb v/v			10/06/22 10:05	1
Trichloroethene	0.037	U	0.037	0.024	ppb v/v			10/06/22 10:05	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/06/22 10:05	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/06/22 10:05	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/06/22 10:05	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/06/22 10:05	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/06/22 10:05	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			10/06/22 10:05	1
Toluene	0.20	U	0.20	0.093	ppb v/v			10/06/22 10:05	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/06/22 10:05	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/06/22 10:05	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			10/06/22 10:05	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/06/22 10:05	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/06/22 10:05	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/06/22 10:05	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/06/22 10:05	1
Ethylbenzene	0.20	U	0.20	0.10	ppb v/v			10/06/22 10:05	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1
o-Xylene	0.20	U	0.20	0.094	ppb v/v			10/06/22 10:05	1
Styrene	0.20	U	0.20	0.032	ppb v/v			10/06/22 10:05	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/06/22 10:05	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/06/22 10:05	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/06/22 10:05	1
n-Propylbenzene	0.20	U	0.20	0.047	ppb v/v			10/06/22 10:05	1
4-Ethyltoluene	0.20	U	0.20	0.051	ppb v/v			10/06/22 10:05	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			10/06/22 10:05	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/06/22 10:05	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/06/22 10:05	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			10/06/22 10:05	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/06/22 10:05	1
4-Isopropyltoluene	0.20	U	0.20	0.039	ppb v/v			10/06/22 10:05	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			10/06/22 10:05	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/06/22 10:05	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/06/22 10:05	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/06/22 10:05	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/06/22 10:05	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/06/22 10:05	1
Hexachlorobutadiene	0.0345	J	0.20	0.031	ppb v/v			10/06/22 10:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	50.9		ug/m3		103	61 - 142
Chlorodifluoromethane	35.4	37.1		ug/m3		105	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	71.0		ug/m3		102	71 - 141
Chloromethane	20.6	21.2		ug/m3		102	56 - 141
n-Butane	23.8	24.3		ug/m3		102	53 - 151
Vinyl chloride	25.6	27.0		ug/m3		106	61 - 135
1,3-Butadiene	22.1	22.9		ug/m3		104	58 - 139
Bromomethane	38.8	39.4		ug/m3		101	72 - 124
Chloroethane	26.4	27.9		ug/m3		106	68 - 130
Bromoethene(Vinyl Bromide)	43.7	45.5		ug/m3		104	75 - 125
Trichlorofluoromethane	56.2	57.0		ug/m3		102	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	75.6		ug/m3		99	70 - 121
1,1-Dichloroethene	39.6	36.3		ug/m3		92	68 - 120
Acetone	23.7	24.6		ug/m3		104	54 - 154
Isopropyl alcohol	24.6	25.3		ug/m3		103	53 - 142
Carbon disulfide	31.1	31.7		ug/m3		102	71 - 138
3-Chloropropene	31.3	30.4		ug/m3		97	50 - 150
Methylene Chloride	34.7	35.3		ug/m3		102	59 - 137
tert-Butyl alcohol	30.3	30.9		ug/m3		102	66 - 132
Methyl tert-butyl ether	36.0	34.9		ug/m3		97	70 - 127
trans-1,2-Dichloroethene	39.6	41.1		ug/m3		104	69 - 137
n-Hexane	35.2	34.3		ug/m3		97	63 - 138
1,1-Dichloroethane	40.5	43.1		ug/m3		106	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	28.7		ug/m3		97	72 - 124
cis-1,2-Dichloroethene	39.6	41.5		ug/m3		105	72 - 121
Chloroform	48.8	48.2		ug/m3		99	73 - 124
Tetrahydrofuran	29.5	27.7		ug/m3		94	60 - 149
1,1,1-Trichloroethane	54.6	50.0		ug/m3		92	72 - 127
Cyclohexane	34.4	31.0		ug/m3		90	76 - 124
Carbon tetrachloride	62.9	62.0		ug/m3		99	71 - 133
2,2,4-Trimethylpentane	46.7	41.8		ug/m3		89	68 - 131
Benzene	31.9	27.4		ug/m3		86	73 - 119
1,2-Dichloroethane	40.5	36.5		ug/m3		90	68 - 135
n-Heptane	41.0	34.7		ug/m3		85	60 - 142
Trichloroethene	53.7	50.0		ug/m3		93	73 - 122
Methyl methacrylate	40.9	36.7		ug/m3		90	73 - 129
1,2-Dichloropropane	46.2	39.8		ug/m3		86	69 - 128
1,4-Dioxane	36.0	31.3		ug/m3		87	66 - 129
Bromodichloromethane	67.0	62.8		ug/m3		94	75 - 127
cis-1,3-Dichloropropene	45.4	39.9		ug/m3		88	74 - 125

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	36.6		ug/m3		89	58 - 144
Toluene	37.7	33.5		ug/m3		89	75 - 122
trans-1,3-Dichloropropene	45.4	40.7		ug/m3		90	74 - 128
1,1,2-Trichloroethane	54.6	50.4		ug/m3		92	75 - 126
Tetrachloroethene	67.8	63.1		ug/m3		93	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	38.3		ug/m3		94	57 - 143
Dibromochloromethane	85.2	81.2		ug/m3		95	73 - 125
1,2-Dibromoethane	76.8	70.2		ug/m3		91	78 - 122
Chlorobenzene	46.0	41.9		ug/m3		91	76 - 119
Ethylbenzene	43.4	38.1		ug/m3		88	74 - 122
m,p-Xylene	86.8	80.2		ug/m3		92	76 - 121
o-Xylene	43.4	37.8		ug/m3		87	73 - 123
Styrene	42.6	39.0		ug/m3		92	74 - 125
Bromoform	103	97.7		ug/m3		95	53 - 149
Cumene	49.1	44.2		ug/m3		90	73 - 123
1,1,2,2-Tetrachloroethane	68.6	62.0		ug/m3		90	74 - 126
n-Propylbenzene	49.1	43.6		ug/m3		89	73 - 127
4-Ethyltoluene	49.2	43.5		ug/m3		88	75 - 129
1,3,5-Trimethylbenzene	49.2	42.3		ug/m3		86	72 - 126
2-Chlorotoluene	51.8	46.7		ug/m3		90	74 - 126
tert-Butylbenzene	54.9	46.5		ug/m3		85	71 - 125
1,2,4-Trimethylbenzene	49.2	41.2		ug/m3		84	71 - 129
sec-Butylbenzene	54.9	45.8		ug/m3		84	70 - 128
4-Isopropyltoluene	54.9	45.3		ug/m3		83	68 - 130
1,3-Dichlorobenzene	60.1	51.7		ug/m3		86	69 - 131
1,4-Dichlorobenzene	60.1	51.7		ug/m3		86	67 - 132
Benzyl chloride	51.8	46.7		ug/m3		90	60 - 136
n-Butylbenzene	54.9	43.9		ug/m3		80	65 - 137
1,2-Dichlorobenzene	60.1	50.6		ug/m3		84	68 - 129
1,2,4-Trichlorobenzene	74.2	56.0		ug/m3		75	50 - 150
Hexachlorobutadiene	107	74.8		ug/m3		70	58 - 130
Naphthalene	52.4	39.4		ug/m3		75	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	10.3		ppb v/v		103	61 - 142
Chlorodifluoromethane	10	10.5		ppb v/v		105	60 - 147
1,2-Dichlorotetrafluoroethane	10	10.2		ppb v/v		102	71 - 141
Chloromethane	10	10.2		ppb v/v		102	56 - 141
n-Butane	10	10.2		ppb v/v		102	53 - 151
Vinyl chloride	10	10.6		ppb v/v		106	61 - 135
1,3-Butadiene	10	10.4		ppb v/v		104	58 - 139
Bromomethane	10	10.1		ppb v/v		101	72 - 124
Chloroethane	10	10.6		ppb v/v		106	68 - 130
Bromoethene(Vinyl Bromide)	10	10.4		ppb v/v		104	75 - 125
Trichlorofluoromethane	10	10.2		ppb v/v		102	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.87		ppb v/v		99	70 - 121
1,1-Dichloroethene	10	9.16		ppb v/v		92	68 - 120

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	10.4		ppb v/v		104	54 - 154
Isopropyl alcohol	10	10.3		ppb v/v		103	53 - 142
Carbon disulfide	10	10.2		ppb v/v		102	71 - 138
3-Chloropropene	10	9.72		ppb v/v		97	50 - 150
Methylene Chloride	10	10.2		ppb v/v		102	59 - 137
tert-Butyl alcohol	10	10.2		ppb v/v		102	66 - 132
Methyl tert-butyl ether	10	9.69		ppb v/v		97	70 - 127
trans-1,2-Dichloroethene	10	10.4		ppb v/v		104	69 - 137
n-Hexane	10	9.73		ppb v/v		97	63 - 138
1,1-Dichloroethane	10	10.6		ppb v/v		106	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	9.73		ppb v/v		97	72 - 124
cis-1,2-Dichloroethene	10	10.5		ppb v/v		105	72 - 121
Chloroform	10	9.87		ppb v/v		99	73 - 124
Tetrahydrofuran	10	9.40		ppb v/v		94	60 - 149
1,1,1-Trichloroethane	10	9.16		ppb v/v		92	72 - 127
Cyclohexane	10	9.00		ppb v/v		90	76 - 124
Carbon tetrachloride	10	9.85		ppb v/v		99	71 - 133
2,2,4-Trimethylpentane	10	8.94		ppb v/v		89	68 - 131
Benzene	10	8.57		ppb v/v		86	73 - 119
1,2-Dichloroethane	10	9.02		ppb v/v		90	68 - 135
n-Heptane	10	8.47		ppb v/v		85	60 - 142
Trichloroethene	10	9.30		ppb v/v		93	73 - 122
Methyl methacrylate	10	8.97		ppb v/v		90	73 - 129
1,2-Dichloropropane	10	8.60		ppb v/v		86	69 - 128
1,4-Dioxane	10	8.69		ppb v/v		87	66 - 129
Bromodichloromethane	10	9.37		ppb v/v		94	75 - 127
cis-1,3-Dichloropropene	10	8.79		ppb v/v		88	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	8.93		ppb v/v		89	58 - 144
Toluene	10	8.89		ppb v/v		89	75 - 122
trans-1,3-Dichloropropene	10	8.97		ppb v/v		90	74 - 128
1,1,2-Trichloroethane	10	9.24		ppb v/v		92	75 - 126
Tetrachloroethene	10	9.30		ppb v/v		93	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	9.36		ppb v/v		94	57 - 143
Dibromochloromethane	10	9.53		ppb v/v		95	73 - 125
1,2-Dibromoethane	10	9.14		ppb v/v		91	78 - 122
Chlorobenzene	10	9.10		ppb v/v		91	76 - 119
Ethylbenzene	10	8.78		ppb v/v		88	74 - 122
m,p-Xylene	20	18.5		ppb v/v		92	76 - 121
o-Xylene	10	8.70		ppb v/v		87	73 - 123
Styrene	10	9.15		ppb v/v		92	74 - 125
Bromoform	10	9.45		ppb v/v		95	53 - 149
Cumene	10	9.00		ppb v/v		90	73 - 123
1,1,2,2-Tetrachloroethane	10	9.03		ppb v/v		90	74 - 126
n-Propylbenzene	10	8.87		ppb v/v		89	73 - 127
4-Ethyltoluene	10	8.84		ppb v/v		88	75 - 129
1,3,5-Trimethylbenzene	10	8.61		ppb v/v		86	72 - 126

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	10	9.02		ppb v/v		90	74 - 126
tert-Butylbenzene	10	8.47		ppb v/v		85	71 - 125
1,2,4-Trimethylbenzene	10	8.39		ppb v/v		84	71 - 129
sec-Butylbenzene	10	8.35		ppb v/v		84	70 - 128
4-Isopropyltoluene	10	8.25		ppb v/v		83	68 - 130
1,3-Dichlorobenzene	10	8.59		ppb v/v		86	69 - 131
1,4-Dichlorobenzene	10	8.61		ppb v/v		86	67 - 132
Benzyl chloride	10	9.03		ppb v/v		90	60 - 136
n-Butylbenzene	10	7.99		ppb v/v		80	65 - 137
1,2-Dichlorobenzene	10	8.41		ppb v/v		84	68 - 129
1,2,4-Trichlorobenzene	10	7.54		ppb v/v		75	50 - 150
Hexachlorobutadiene	10	7.02		ppb v/v		70	58 - 130
Naphthalene	10	7.53		ppb v/v		75	50 - 150

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	0.54	ug/m3			10/07/22 09:52	1
Chlorodifluoromethane	1.8	U	1.8	0.39	ug/m3			10/07/22 09:52	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 09:52	1
Chloromethane	1.0	U	1.0	0.25	ug/m3			10/07/22 09:52	1
n-Butane	1.2	U	1.2	0.45	ug/m3			10/07/22 09:52	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 09:52	1
1,3-Butadiene	0.44	U	0.44	0.084	ug/m3			10/07/22 09:52	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 09:52	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 09:52	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 09:52	1
Trichlorofluoromethane	1.1	U	1.1	0.29	ug/m3			10/07/22 09:52	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/07/22 09:52	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 09:52	1
Acetone	12	U	12	4.8	ug/m3			10/07/22 09:52	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			10/07/22 09:52	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			10/07/22 09:52	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 09:52	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/07/22 09:52	1
tert-Butyl alcohol	15	U	15	3.6	ug/m3			10/07/22 09:52	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 09:52	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/07/22 09:52	1
n-Hexane	1.8	U	1.8	0.81	ug/m3			10/07/22 09:52	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 09:52	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.50	ug/m3			10/07/22 09:52	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			10/07/22 09:52	1
Chloroform	0.98	U	0.98	0.22	ug/m3			10/07/22 09:52	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 09:52	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 09:52	1
Cyclohexane	0.69	U	0.69	0.12	ug/m3			10/07/22 09:52	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			10/07/22 09:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	0.93	U	0.93	0.16	ug/m3			10/07/22 09:52	1
Benzene	0.64	U	0.64	0.24	ug/m3			10/07/22 09:52	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 09:52	1
n-Heptane	0.82	U	0.82	0.24	ug/m3			10/07/22 09:52	1
Trichloroethene	0.20	U	0.20	0.13	ug/m3			10/07/22 09:52	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 09:52	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 09:52	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 09:52	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 09:52	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 09:52	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			10/07/22 09:52	1
Toluene	0.75	U	0.75	0.35	ug/m3			10/07/22 09:52	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 09:52	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 09:52	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			10/07/22 09:52	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 09:52	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 09:52	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 09:52	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 09:52	1
Ethylbenzene	0.87	U	0.87	0.43	ug/m3			10/07/22 09:52	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			10/07/22 09:52	1
o-Xylene	0.87	U	0.87	0.41	ug/m3			10/07/22 09:52	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/07/22 09:52	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 09:52	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/07/22 09:52	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 09:52	1
n-Propylbenzene	0.98	U	0.98	0.23	ug/m3			10/07/22 09:52	1
4-Ethyltoluene	0.98	U	0.98	0.25	ug/m3			10/07/22 09:52	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			10/07/22 09:52	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 09:52	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 09:52	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			10/07/22 09:52	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 09:52	1
4-Isopropyltoluene	1.1	U	1.1	0.21	ug/m3			10/07/22 09:52	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			10/07/22 09:52	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 09:52	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/07/22 09:52	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 09:52	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 09:52	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 09:52	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 09:52	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 09:52	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/07/22 09:52	1
Chlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/07/22 09:52	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 09:52	1
Chloromethane	0.50	U	0.50	0.12	ppb v/v			10/07/22 09:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butane	0.50	U	0.50	0.19	ppb v/v			10/07/22 09:52	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 09:52	1
1,3-Butadiene	0.20	U	0.20	0.038	ppb v/v			10/07/22 09:52	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 09:52	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 09:52	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 09:52	1
Trichlorofluoromethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 09:52	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 09:52	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 09:52	1
Acetone	5.0	U	5.0	2.0	ppb v/v			10/07/22 09:52	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			10/07/22 09:52	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			10/07/22 09:52	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 09:52	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1
tert-Butyl alcohol	5.0	U	5.0	1.2	ppb v/v			10/07/22 09:52	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 09:52	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/07/22 09:52	1
n-Hexane	0.50	U	0.50	0.23	ppb v/v			10/07/22 09:52	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 09:52	1
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			10/07/22 09:52	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			10/07/22 09:52	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 09:52	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 09:52	1
Cyclohexane	0.20	U	0.20	0.035	ppb v/v			10/07/22 09:52	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			10/07/22 09:52	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.035	ppb v/v			10/07/22 09:52	1
Benzene	0.20	U	0.20	0.074	ppb v/v			10/07/22 09:52	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 09:52	1
n-Heptane	0.20	U	0.20	0.059	ppb v/v			10/07/22 09:52	1
Trichloroethene	0.037	U	0.037	0.024	ppb v/v			10/07/22 09:52	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 09:52	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 09:52	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 09:52	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 09:52	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 09:52	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			10/07/22 09:52	1
Toluene	0.20	U	0.20	0.093	ppb v/v			10/07/22 09:52	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 09:52	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 09:52	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			10/07/22 09:52	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 09:52	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 09:52	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 09:52	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 09:52	1
Ethylbenzene	0.20	U	0.20	0.10	ppb v/v			10/07/22 09:52	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1
o-Xylene	0.20	U	0.20	0.094	ppb v/v			10/07/22 09:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.20	U	0.20	0.032	ppb v/v			10/07/22 09:52	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 09:52	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/07/22 09:52	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 09:52	1
n-Propylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/22 09:52	1
4-Ethyltoluene	0.20	U	0.20	0.051	ppb v/v			10/07/22 09:52	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/22 09:52	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 09:52	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 09:52	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/22 09:52	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 09:52	1
4-Isopropyltoluene	0.20	U	0.20	0.039	ppb v/v			10/07/22 09:52	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			10/07/22 09:52	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 09:52	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/07/22 09:52	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 09:52	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 09:52	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 09:52	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 09:52	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	54.8		ug/m3		111	61 - 142
Chlorodifluoromethane	35.4	38.3		ug/m3		108	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	74.0		ug/m3		106	71 - 141
Chloromethane	20.6	21.9		ug/m3		106	56 - 141
n-Butane	23.8	23.8		ug/m3		100	53 - 151
Vinyl chloride	25.6	22.9		ug/m3		89	61 - 135
1,3-Butadiene	22.1	18.8		ug/m3		85	58 - 139
Bromomethane	38.8	39.8		ug/m3		103	72 - 124
Chloroethane	26.4	27.3		ug/m3		103	68 - 130
Bromoethene(Vinyl Bromide)	43.7	45.2		ug/m3		103	75 - 125
Trichlorofluoromethane	56.2	58.3		ug/m3		104	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	79.1		ug/m3		103	70 - 121
1,1-Dichloroethene	39.6	36.9		ug/m3		93	68 - 120
Acetone	23.7	26.1		ug/m3		110	54 - 154
Isopropyl alcohol	24.6	25.6		ug/m3		104	53 - 142
Carbon disulfide	31.1	32.5		ug/m3		104	71 - 138
3-Chloropropene	31.3	31.3		ug/m3		100	50 - 150
Methylene Chloride	34.7	36.1		ug/m3		104	59 - 137
tert-Butyl alcohol	30.3	32.1		ug/m3		106	66 - 132
Methyl tert-butyl ether	36.0	37.7		ug/m3		105	70 - 127
trans-1,2-Dichloroethene	39.6	38.6		ug/m3		97	69 - 137
n-Hexane	35.2	35.1		ug/m3		100	63 - 138
1,1-Dichloroethane	40.5	38.5		ug/m3		95	66 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Ethyl Ketone (2-Butanone)	29.5	30.9		ug/m3		105	72 - 124
cis-1,2-Dichloroethene	39.6	37.6		ug/m3		95	72 - 121
Chloroform	48.8	49.9		ug/m3		102	73 - 124
Tetrahydrofuran	29.5	31.1		ug/m3		105	60 - 149
1,1,1-Trichloroethane	54.6	56.2		ug/m3		103	72 - 127
Cyclohexane	34.4	34.6		ug/m3		101	76 - 124
Carbon tetrachloride	62.9	63.1		ug/m3		100	71 - 133
2,2,4-Trimethylpentane	46.7	46.7		ug/m3		100	68 - 131
Benzene	31.9	31.5		ug/m3		99	73 - 119
1,2-Dichloroethane	40.5	41.0		ug/m3		101	68 - 135
n-Heptane	41.0	40.5		ug/m3		99	60 - 142
Trichloroethene	53.7	52.0		ug/m3		97	73 - 122
Methyl methacrylate	40.9	42.9		ug/m3		105	73 - 129
1,2-Dichloropropane	46.2	46.5		ug/m3		101	69 - 128
1,4-Dioxane	36.0	35.2		ug/m3		98	66 - 129
Bromodichloromethane	67.0	70.9		ug/m3		106	75 - 127
cis-1,3-Dichloropropene	45.4	47.9		ug/m3		106	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	43.6		ug/m3		106	58 - 144
Toluene	37.7	38.2		ug/m3		101	75 - 122
trans-1,3-Dichloropropene	45.4	49.6		ug/m3		109	74 - 128
1,1,2-Trichloroethane	54.6	55.7		ug/m3		102	75 - 126
Tetrachloroethene	67.8	66.3		ug/m3		98	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	41.1		ug/m3		100	57 - 143
Dibromochloromethane	85.2	94.3		ug/m3		111	73 - 125
1,2-Dibromoethane	76.8	80.4		ug/m3		105	78 - 122
Chlorobenzene	46.0	47.5		ug/m3		103	76 - 119
Ethylbenzene	43.4	44.9		ug/m3		103	74 - 122
m,p-Xylene	86.8	90.4		ug/m3		104	76 - 121
o-Xylene	43.4	45.2		ug/m3		104	73 - 123
Styrene	42.6	47.4		ug/m3		111	74 - 125
Bromoform	103	121		ug/m3		117	53 - 149
Cumene	49.1	51.5		ug/m3		105	73 - 123
1,1,2,2-Tetrachloroethane	68.6	70.5		ug/m3		103	74 - 126
n-Propylbenzene	49.1	51.8		ug/m3		105	73 - 127
4-Ethyltoluene	49.2	52.2		ug/m3		106	75 - 129
1,3,5-Trimethylbenzene	49.2	51.4		ug/m3		105	72 - 126
2-Chlorotoluene	51.8	54.0		ug/m3		104	74 - 126
tert-Butylbenzene	54.9	57.6		ug/m3		105	71 - 125
1,2,4-Trimethylbenzene	49.2	51.8		ug/m3		105	71 - 129
sec-Butylbenzene	54.9	57.7		ug/m3		105	70 - 128
4-Isopropyltoluene	54.9	58.4		ug/m3		106	68 - 130
1,3-Dichlorobenzene	60.1	65.0		ug/m3		108	69 - 131
1,4-Dichlorobenzene	60.1	65.4		ug/m3		109	67 - 132
Benzyl chloride	51.8	75.5	*+	ug/m3		146	60 - 136
n-Butylbenzene	54.9	58.4		ug/m3		106	65 - 137
1,2-Dichlorobenzene	60.1	63.3		ug/m3		105	68 - 129

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	74.2	74.4		ug/m3		100	50 - 150
Hexachlorobutadiene	107	114		ug/m3		107	58 - 130
Naphthalene	52.4	53.3		ug/m3		102	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	11.1		ppb v/v		111	61 - 142
Chlorodifluoromethane	10	10.8		ppb v/v		108	60 - 147
1,2-Dichlorotetrafluoroethane	10	10.6		ppb v/v		106	71 - 141
Chloromethane	10	10.6		ppb v/v		106	56 - 141
n-Butane	10	10.0		ppb v/v		100	53 - 151
Vinyl chloride	10	8.94		ppb v/v		89	61 - 135
1,3-Butadiene	10	8.51		ppb v/v		85	58 - 139
Bromomethane	10	10.2		ppb v/v		103	72 - 124
Chloroethane	10	10.3		ppb v/v		103	68 - 130
Bromoethene(Vinyl Bromide)	10	10.3		ppb v/v		103	75 - 125
Trichlorofluoromethane	10	10.4		ppb v/v		104	70 - 129
1,1,2-Trichlorotrifluoroethane	10	10.3		ppb v/v		103	70 - 121
1,1-Dichloroethene	10	9.31		ppb v/v		93	68 - 120
Acetone	10	11.0		ppb v/v		110	54 - 154
Isopropyl alcohol	10	10.4		ppb v/v		104	53 - 142
Carbon disulfide	10	10.4		ppb v/v		104	71 - 138
3-Chloropropene	10	10.0		ppb v/v		100	50 - 150
Methylene Chloride	10	10.4		ppb v/v		104	59 - 137
tert-Butyl alcohol	10	10.6		ppb v/v		106	66 - 132
Methyl tert-butyl ether	10	10.5		ppb v/v		105	70 - 127
trans-1,2-Dichloroethene	10	9.73		ppb v/v		97	69 - 137
n-Hexane	10	9.95		ppb v/v		100	63 - 138
1,1-Dichloroethane	10	9.52		ppb v/v		95	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	10.5		ppb v/v		105	72 - 124
cis-1,2-Dichloroethene	10	9.48		ppb v/v		95	72 - 121
Chloroform	10	10.2		ppb v/v		102	73 - 124
Tetrahydrofuran	10	10.5		ppb v/v		105	60 - 149
1,1,1-Trichloroethane	10	10.3		ppb v/v		103	72 - 127
Cyclohexane	10	10.1		ppb v/v		101	76 - 124
Carbon tetrachloride	10	10.0		ppb v/v		100	71 - 133
2,2,4-Trimethylpentane	10	9.99		ppb v/v		100	68 - 131
Benzene	10	9.87		ppb v/v		99	73 - 119
1,2-Dichloroethane	10	10.1		ppb v/v		101	68 - 135
n-Heptane	10	9.87		ppb v/v		99	60 - 142
Trichloroethene	10	9.67		ppb v/v		97	73 - 122
Methyl methacrylate	10	10.5		ppb v/v		105	73 - 129
1,2-Dichloropropane	10	10.1		ppb v/v		101	69 - 128
1,4-Dioxane	10	9.77		ppb v/v		98	66 - 129
Bromodichloromethane	10	10.6		ppb v/v		106	75 - 127
cis-1,3-Dichloropropene	10	10.6		ppb v/v		106	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	10.6		ppb v/v		106	58 - 144
Toluene	10	10.1		ppb v/v		101	75 - 122

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	10	10.9		ppb v/v		109	74 - 128
1,1,2-Trichloroethane	10	10.2		ppb v/v		102	75 - 126
Tetrachloroethene	10	9.77		ppb v/v		98	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	10.0		ppb v/v		100	57 - 143
Dibromochloromethane	10	11.1		ppb v/v		111	73 - 125
1,2-Dibromoethane	10	10.5		ppb v/v		105	78 - 122
Chlorobenzene	10	10.3		ppb v/v		103	76 - 119
Ethylbenzene	10	10.3		ppb v/v		103	74 - 122
m,p-Xylene	20	20.8		ppb v/v		104	76 - 121
o-Xylene	10	10.4		ppb v/v		104	73 - 123
Styrene	10	11.1		ppb v/v		111	74 - 125
Bromoform	10	11.7		ppb v/v		117	53 - 149
Cumene	10	10.5		ppb v/v		105	73 - 123
1,1,2,2-Tetrachloroethane	10	10.3		ppb v/v		103	74 - 126
n-Propylbenzene	10	10.5		ppb v/v		105	73 - 127
4-Ethyltoluene	10	10.6		ppb v/v		106	75 - 129
1,3,5-Trimethylbenzene	10	10.5		ppb v/v		105	72 - 126
2-Chlorotoluene	10	10.4		ppb v/v		104	74 - 126
tert-Butylbenzene	10	10.5		ppb v/v		105	71 - 125
1,2,4-Trimethylbenzene	10	10.5		ppb v/v		105	71 - 129
sec-Butylbenzene	10	10.5		ppb v/v		105	70 - 128
4-Isopropyltoluene	10	10.6		ppb v/v		106	68 - 130
1,3-Dichlorobenzene	10	10.8		ppb v/v		108	69 - 131
1,4-Dichlorobenzene	10	10.9		ppb v/v		109	67 - 132
Benzyl chloride	10	14.6	*+	ppb v/v		146	60 - 136
n-Butylbenzene	10	10.6		ppb v/v		106	65 - 137
1,2-Dichlorobenzene	10	10.5		ppb v/v		105	68 - 129
1,2,4-Trichlorobenzene	10	10.0		ppb v/v		100	50 - 150
Hexachlorobutadiene	10	10.7		ppb v/v		107	58 - 130
Naphthalene	10	10.2		ppb v/v		102	50 - 150

QC Association Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Air - GC/MS VOA

Analysis Batch: 184353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-65184-1	SV-02_20221003	Total/NA	Air	TO-15	
200-65184-1 - DL	SV-02_20221003	Total/NA	Air	TO-15	
200-65184-2 - DL	SV-04_20221003	Total/NA	Air	TO-15	
200-65184-2	SV-04_20221003	Total/NA	Air	TO-15	
MB 200-184353/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-184353/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 184402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-65197-1	SV-01_20221004	Total/NA	Air	TO-15	
200-65197-1 - DL	SV-01_20221004	Total/NA	Air	TO-15	
200-65197-2	SV-03_20221004	Total/NA	Air	TO-15	
200-65197-3	SV-05_20221004	Total/NA	Air	TO-15	
200-65197-3 - DL	SV-05_20221004	Total/NA	Air	TO-15	
MB 200-184402/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-184402/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: AKRF Inc
Job ID: 200-65184-1
Project/Site: Ikos Senior Living

Client Sample ID: SV-02_20221003
Lab Sample ID: 200-65184-1
Date Collected: 10/03/22 13:10
Matrix: Air
Date Received: 10/04/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184353	A1B	EET BUR	10/06/22 11:50
Total/NA	Analysis	TO-15	DL	2	184353	A1B	EET BUR	10/06/22 12:43

Client Sample ID: SV-04_20221003
Lab Sample ID: 200-65184-2
Date Collected: 10/03/22 15:30
Matrix: Air
Date Received: 10/04/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	10	184353	A1B	EET BUR	10/06/22 14:29
Total/NA	Analysis	TO-15		1	184353	A1B	EET BUR	10/07/22 01:07

Client Sample ID: SV-01_20221004
Lab Sample ID: 200-65197-1
Date Collected: 10/04/22 15:30
Matrix: Air
Date Received: 10/05/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184402	K1P	EET BUR	10/07/22 14:34
Total/NA	Analysis	TO-15	DL	6.14	184402	K1P	EET BUR	10/07/22 15:26

Client Sample ID: SV-03_20221004
Lab Sample ID: 200-65197-2
Date Collected: 10/04/22 11:00
Matrix: Air
Date Received: 10/05/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184402	K1P	EET BUR	10/07/22 16:19

Client Sample ID: SV-05_20221004
Lab Sample ID: 200-65197-3
Date Collected: 10/04/22 14:00
Matrix: Air
Date Received: 10/05/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184402	K1P	EET BUR	10/07/22 17:11
Total/NA	Analysis	TO-15	DL	2	184402	K1P	EET BUR	10/07/22 18:03

Laboratory References:
EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 200-65184-1
Project/Site: Ikos Senior Living

Laboratory: Eurofins Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	VT972	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,4-Dioxane
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
TO-15		Air	m,p-Xylene
TO-15		Air	n-Butane
TO-15		Air	n-Butylbenzene
TO-15		Air	n-Propylbenzene
TO-15		Air	sec-Butylbenzene
TO-15		Air	tert-Butylbenzene

Method Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-65184-1	SV-02_20221003	Air	10/03/22 13:10	10/04/22 13:30	Air Canister (6-Liter) #6266
200-65184-2	SV-04_20221003	Air	10/03/22 15:30	10/04/22 13:30	Air Canister (6-Liter) #5058
200-65197-1	SV-01_20221004	Air	10/04/22 15:30	10/05/22 10:30	Air Canister (6-Liter) #5630
200-65197-2	SV-03_20221004	Air	10/04/22 11:00	10/05/22 10:30	Air Canister (6-Liter) #3642
200-65197-3	SV-05_20221004	Air	10/04/22 14:00	10/05/22 10:30	Air Canister (6-Liter) #6309

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-65184	10/05/22	14:58	29.7	21	G34	CC

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		No	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		No	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-65184-A-1	6266	-2.6	N	11564	91/80	Y	9196-52552	
200-65184-A-2	5058	-4.7	N	7051	91/79	Y	9196-52552	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-65197	10/06/22	9:13	29.6	21	G34	ZK

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		No	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		No	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-65197-A-1	5630	-12.2	Y	10655	91/79	Y	4570-52552	
200-65197-A-2	3642	-3.0	N	10652	91/79	Y	9196-52552	
200-65197-A-3	6309	-7.1	N	3979	92/74	Y	9196-52552	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

NYC 222

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802 660 1990 fax 802.660.1919

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** Asya Bychkova	**Samples Collected By:** T. Giordano	COC No
Company Name AKRF, Inc.	**Phone:**		1 of 1 COCs
Address 440 Park Avenue South, 7th Fl	**Email:** abychkova@akrf.com		TALS Project #
City/State/Zip New York, NY 10016			**For Lab Use Only:**
Phone 646 388 9553	**Site Contact:** Tom Giordano		Walk-in Client:
FAX	**Tel/Fax** 914 602 6956		Lab Sampling
Project Name IH05	**Analysis Turnaround Time**		
Site/Location Astoria, Queens, NY	Standard (Specific): ✓		Job / SDG No
P O # 210124	Rush (Specifiy)		(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14A (Standard) / Low Level	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SV-02_20221003	10/3/22	1200	10/3/22	1310	-30	-5	11564	6366	X														
SV-04_20221003	↓	1330	↓	1530	-30	-7	7051	5058	X														

200-65184 COC

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Category A / Equis Edd

Samples Shipped by: Tom Giordano AKRF	**Date / Time:** 10/3/2022	**Samples Received by:**	
Samples Relinquished by:	**Date / Time:** 10/3/22 17:00	**Received by:** Caitlin Cuni ETA-BUR	10/4/22 1330
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



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1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Warning Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Chain of Custody Record

611420 eurofins | Environment Testing America

Address: NYC 20[illegible]

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Anya Rychlenko	Site Contact: Tom Gordon	Date: 10/4/2022	COC No:
Company Name: AKRF, Inc.	Tel/Email: arychlenko@akrf.com	Lab Contact: M. Hayes	Carrier:	3 of 3 COCs
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time			Sampler:
City/State/Zip: New York, NY 10016	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 646-388-9433	TAT if different from Below Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: IHOS	☑ 1 week			
Site: Astoria, Queens, NY	☐ 2 days			Job / SDG No.:
P O # 210174	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TO-15, Standard	Sample Specific Notes:
SV-01_20221004	10/4/2022	1350/1530	G	A	1			X	-14 in Hg Can 5638 Controller 10655
SV-03_20221004	↓	0900/1100	—	A	1			X	-7 in Hg Can 3643 Controller 10652
SV-05_20221004	↓	1235/1410	—	A	1			X	-8 in Hg Can 6307 Controller 3979

200-65197 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:
Category A Deliverables - EQuIS EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Gordon	AKRF, Inc	10/4/22 1600		T.A.	10/4/22 16:60
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T.A.	10/4/22		ETA Buri	10/5/2022 1030
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Page 69 of 96

10/11/2022

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-65184-1

Login Number: 65184
List Number: 1
Creator: Cunningham, Caroline R

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-65184-1

Login Number: 65197
List Number: 1
Creator: Khudaier, Zahraa

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pre-Shipment Clean Canist ertification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	22	9/21/2022	1200	23		TPB	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	34002081	1.04	1.04	0	29.6	G26	9/22/22	1105	DTB	22	G26	9/23/22	1514		22.0
2	4383		1.04	0		G26					G26				
3	2892		1.04	0		G26					G26				
4	3217		1.04	0		G26					G26				
5	4347		1.17	1.13		G26					G26				
6	6309		1.04	0		G26					G26				
7	6266		1.04	0		G26					G26				
8	3233		1.04	0		G26					G26				
9	3642		1.04	0		G26					G26				
10	5058		1.04	0		G26					G26				
11	5434		1.04	0		G26					G26				
12	9196	1.04	1.05	0.01	29.9	G26	9/23/22	1555		22.0	G26	10/3/22	1444	TDB	22

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL 9/23/22

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
9196	9/23/22	52552	VTP		xxxx				9/23/22	DTB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Pre-Shipment Clean Canist ertification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	10	25	9/21/2022	1200	23		TPB	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5717	.04	.04	0	29.6	G26	9/22/22	1400	DB	22	G26	9/23/22	1420	—	22.0
2	9239		.10	.06		G26					G26				
3	5629		.04	0		G26					G26				
4	5630		.04	0		G26					G26				
5	9216		.04	0		G26					G26				
6	9228		.15	.11		G26					G26				
7	5983		.17	.13		G26					G26				
8	9259		.04	0		G26					G26				
9	5624		.28	.24		G26					G26				
10	5638		.04	.00		G26					G26				
11	4789		.04	0		G26					G26				
12	4570	.04	.04	0	29.9	G26	9/23/22	1500	—	22.0	G26	10/3/22	1445	DB	22

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister PM Authorization Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
4570	9/23/22	52552	VTP		xxxx				9/23/22	DB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

TestAmerica Burlington

4570
200-1657090
200-65008-A-12
Summa Canister 6L

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65006-1

SDG No.:

Client Sample ID: 9196 Lab Sample ID: 200-65006-12

Matrix: Air Lab File ID: 52552-006.d

Analysis Method: TO-15 Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/23/2022 14:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 183859 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65006-1

SDG No.:

Client Sample ID: 9196 Lab Sample ID: 200-65006-12

Matrix: Air Lab File ID: 52552-006.d

Analysis Method: TO-15 Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/23/2022 14:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 183859 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.0099	J	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d
Lims ID: 200-65006-A-12
Client ID: 9196
Sample Type: Client
Inject. Date: 23-Sep-2022 14:02:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0052552-006
Misc. Info.: 65006-12
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 25-Sep-2022 16:46:34 Calib Date: 09-Jul-2022 01:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220708-51593.b\51593-013.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: bunmaa Date: 25-Sep-2022 16:46:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.067				ND	7
2 Dichlorodifluoromethane	85		4.163				ND	
3 Chlorodifluoromethane	51		4.206				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.511				ND	
5 Chloromethane	50		4.624				ND	7
6 Vinyl chloride	62		4.923				ND	
7 Butane	43		4.923				ND	7
8 Butadiene	54		5.035				ND	
9 Bromomethane	94		5.742				ND	
10 Chloroethane	64		6.004				ND	
13 Vinyl bromide	106		6.421				ND	
14 Trichlorofluoromethane	101		6.587				ND	
16 Ethanol	45		6.956				ND	7
20 1,1-Dichloroethene	96		7.635				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.678				ND	
22 Acetone	43		7.721				ND	7
23 Isopropyl alcohol	45		8.015				ND	7
24 Carbon disulfide	76	8.037	8.047	-0.005	69	2486	0.0324	
26 3-Chloro-1-propene	41		8.331				ND	7
27 Methylene Chloride	49	8.572	8.572	0.011	42	1756	0.0534	7M
28 2-Methyl-2-propanol	59		8.786				ND	
30 trans-1,2-Dichloroethene	61		9.058				ND	7
31 Methyl tert-butyl ether	73		9.074				ND	7
32 Hexane	57	9.556	9.556	-0.005	59	376	0.0102	7M
33 1,1-Dichloroethane	63		9.813				ND	
34 Vinyl acetate	43		9.829				ND	7
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
36 2-Butanone (MEK)	72		10.776				ND	
37 cis-1,2-Dichloroethene	96		10.797				ND	
38 Ethyl acetate	88		10.867				ND	
* 39 Chlorobromomethane	128	11.204	11.209	-0.005	73	224985	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.257				ND	7
	41 Chloroform	83		11.386				ND	
	42 1,1,1-Trichloroethane	97		11.685				ND	
	43 Cyclohexane	84		11.830				ND	7
	44 Carbon tetrachloride	117		11.969				ND	
	45 Benzene	78		12.311				ND	7
	46 1,2-Dichloroethane	62		12.386				ND	
	47 Isooctane	57		12.536				ND	
	48 n-Heptane	43		12.846				ND	7
*	49 1,4-Difluorobenzene	114	13.049	13.049	0.000	95	1166926	10.0	
	51 Trichloroethene	95	13.483	13.483	0.006	89	2733	0.0496	M
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.028				ND	
	55 1,4-Dioxane	88		14.076				ND	
	57 Dibromomethane	174		14.087				ND	7
	58 Dichlorobromomethane	83		14.397				ND	
	59 cis-1,3-Dichloropropene	75		15.200				ND	7
	61 4-Methyl-2-pentanone (MIBK)	43		15.467				ND	7
	62 Toluene	92		15.842				ND	7
	66 trans-1,3-Dichloropropene	75		16.259				ND	
	67 1,1,2-Trichloroethane	83		16.634				ND	
	68 Tetrachloroethene	166		16.832				ND	
	69 2-Hexanone	43		17.051				ND	7
	70 Chlorodibromomethane	129		17.367				ND	
	71 Ethylene Dibromide	107		17.602				ND	
*	73 Chlorobenzene-d5	117	18.511	18.517	-0.006	91	942938	10.0	
	74 Chlorobenzene	112		18.576				ND	
	75 Ethylbenzene	91		18.773				ND	7
	76 m-Xylene & p-Xylene	106		19.036				ND	
	78 o-Xylene	106		19.806				ND	
	79 Styrene	104		19.843				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.196				ND	
	82 Isopropylbenzene	105		20.534				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.063				ND	7
	85 N-Propylbenzene	91		21.272				ND	MU
	86 2-Chlorotoluene	91		21.416				ND	7
	87 4-Ethyltoluene	105		21.475				ND	7
	88 1,3,5-Trimethylbenzene	105		21.571				ND	7
	91 tert-Butylbenzene	119		22.064				ND	
	92 1,2,4-Trimethylbenzene	105		22.149				ND	7
	93 sec-Butylbenzene	105		22.390				ND	7
	94 1,3-Dichlorobenzene	146		22.561				ND	7
	95 4-Isopropyltoluene	119		22.609				ND	7
	96 1,4-Dichlorobenzene	146		22.706				ND	MU
	97 Benzyl chloride	91		22.855				ND	7
	98 n-Butylbenzene	91		23.166				ND	7
	99 1,2-Dichlorobenzene	146	23.192	23.192	0.000	10	1004	0.009401	
	102 1,2,4-Trichlorobenzene	180		25.573				ND	7
	103 Hexachlorobutadiene	225		25.814				ND	
	104 Naphthalene	128		26.033				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

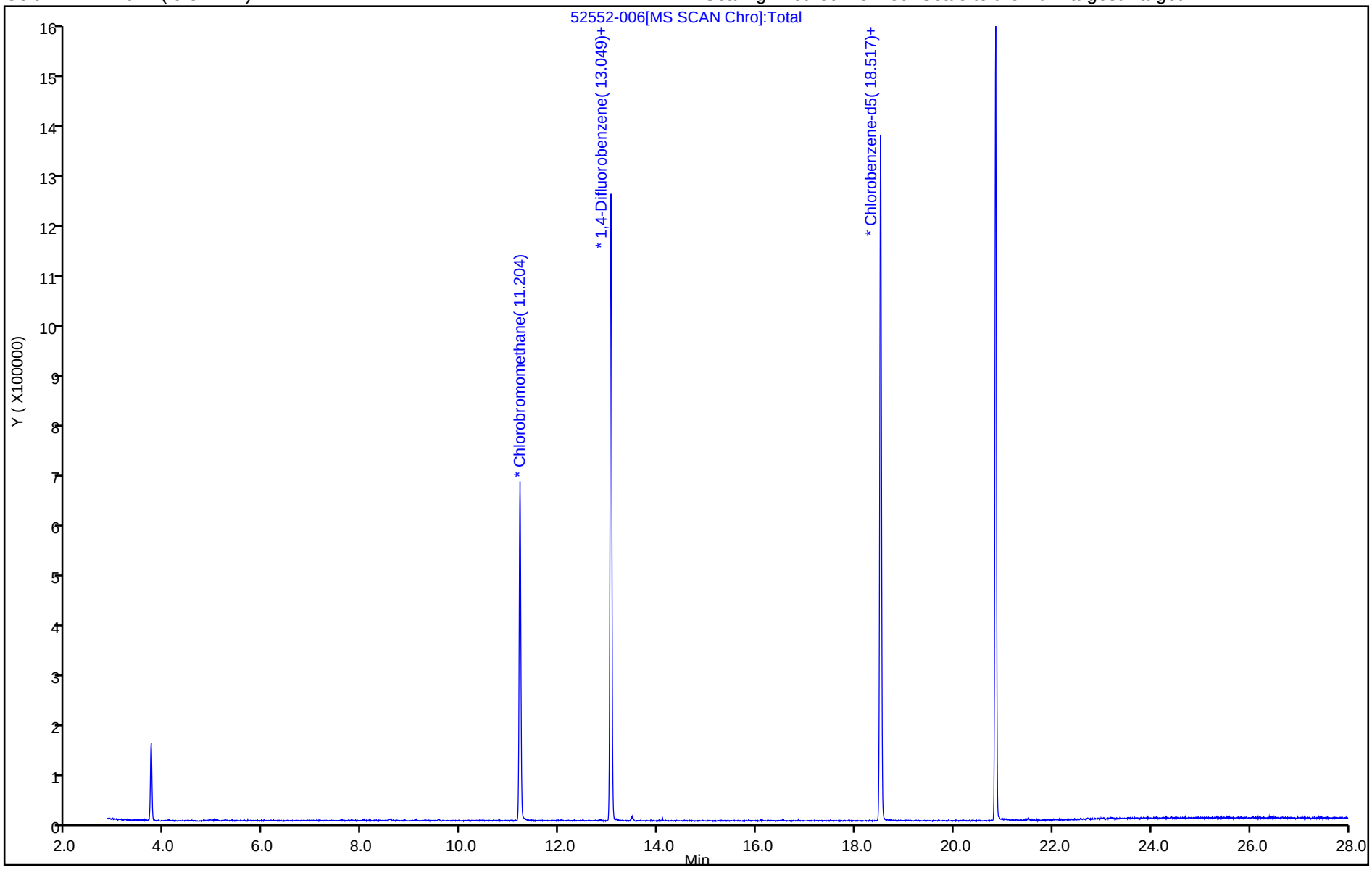
Report Date: 25-Sep-2022 16:46:35 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d

Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12	Worklist Smp#:	6
Client ID:	9196				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	6
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

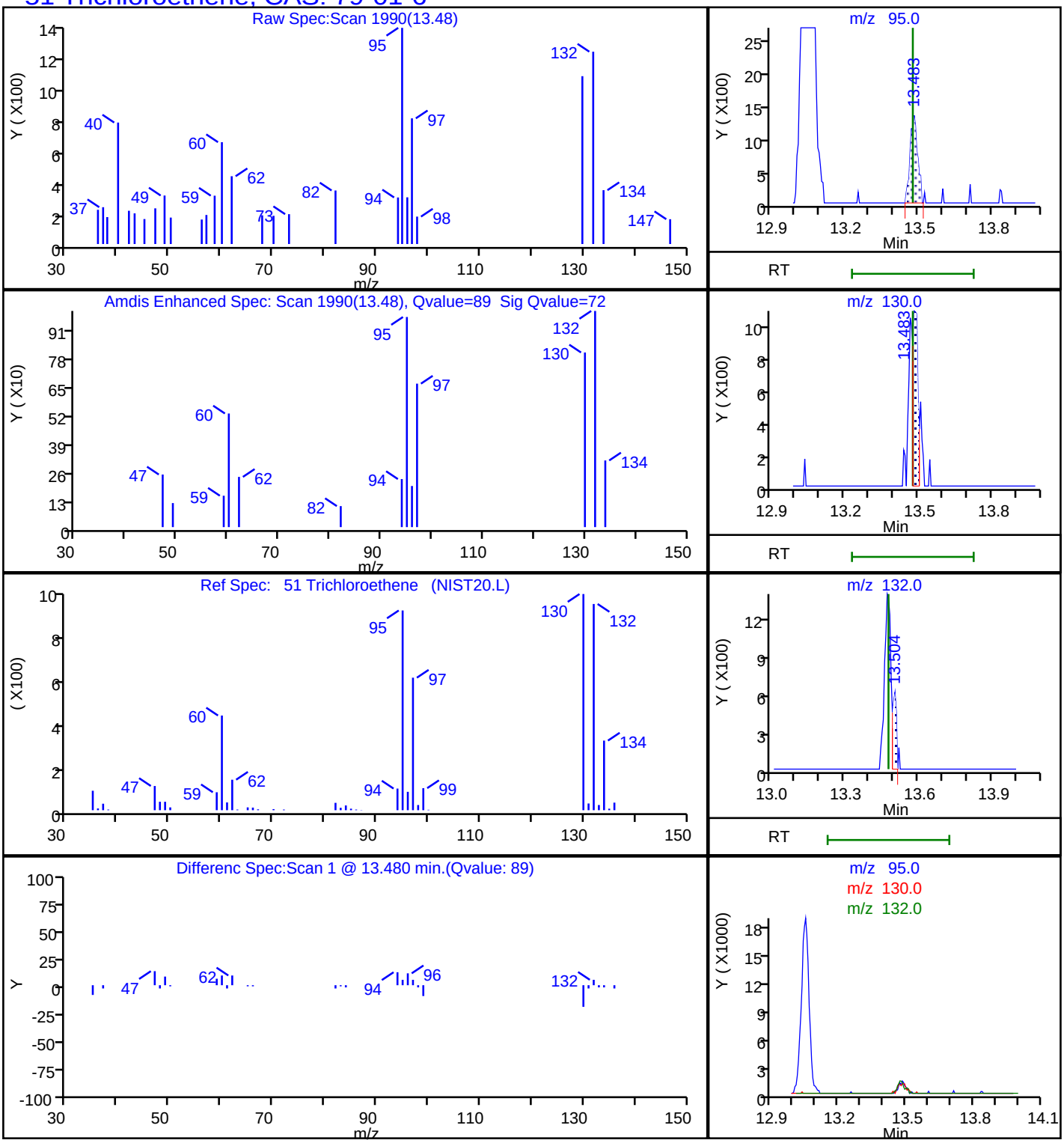


Report Date: 25-Sep-2022 16:46:35 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d				
Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

51 Trichloroethene, CAS: 79-01-6



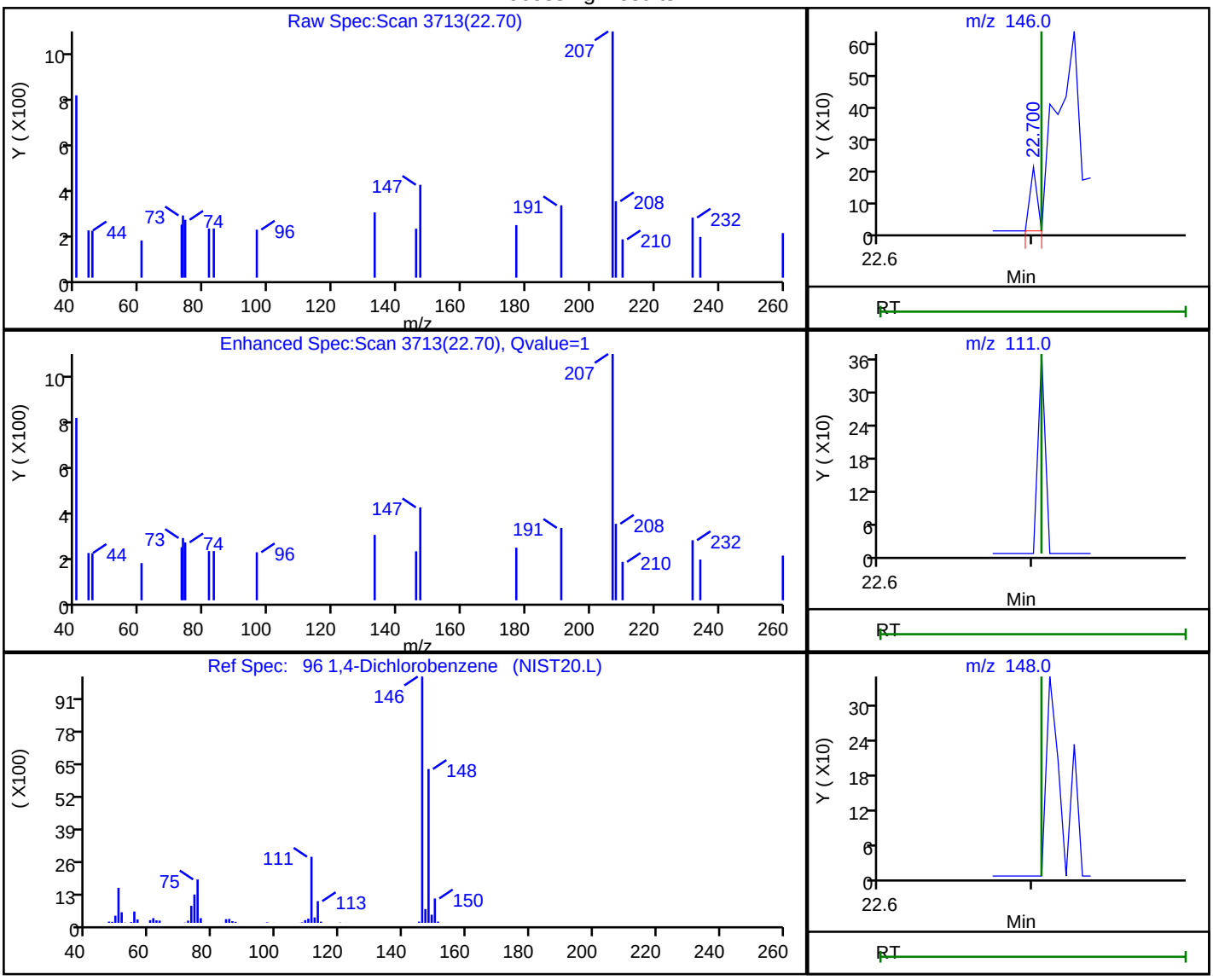
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d				
Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
22.70	146.00	65	0.000660
22.71	111.00	0	
22.71	148.00	0	

Reviewer: bunmaa, 25-Sep-2022 16:46:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Burlington

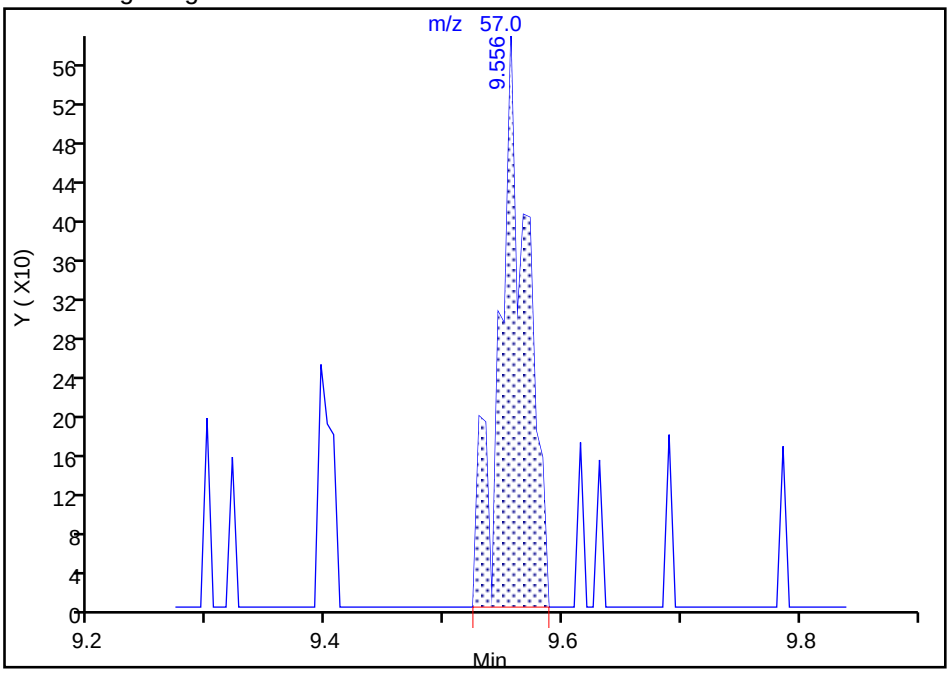
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Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

32 Hexane, CAS: 110-54-3

Signal: 1

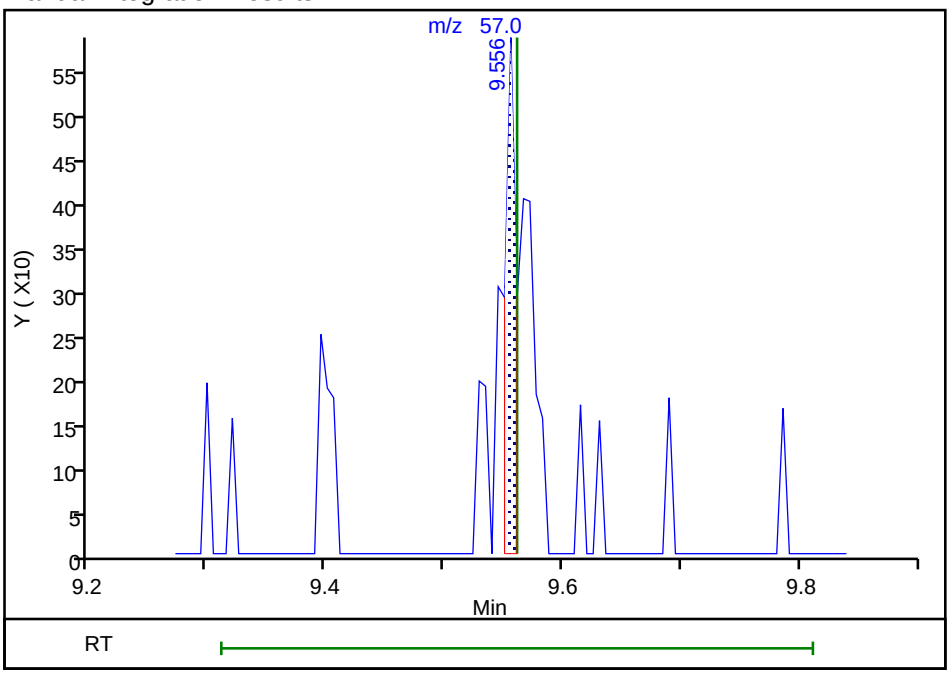
Processing Integration Results

RT: 9.56
Area: 962
Amount: 0.026151
Amount Units: ppb v/v



Manual Integration Results

RT: 9.56
Area: 376
Amount: 0.010221
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:44:26

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

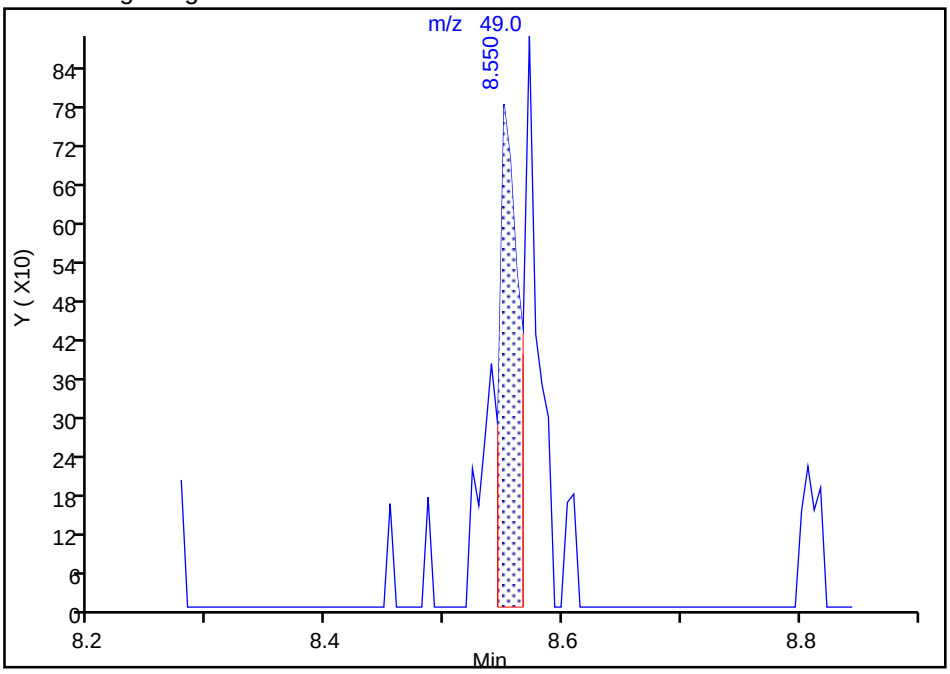
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Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

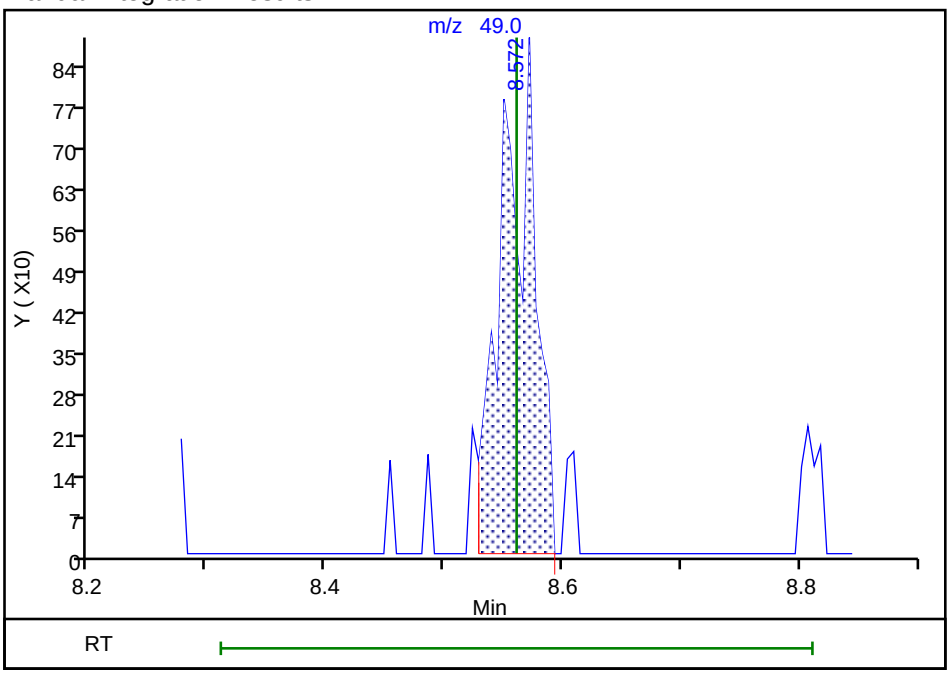
Processing Integration Results

RT: 8.55
Area: 871
Amount: 0.026471
Amount Units: ppb v/v



Manual Integration Results

RT: 8.57
Area: 1756
Amount: 0.053367
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:43:46

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

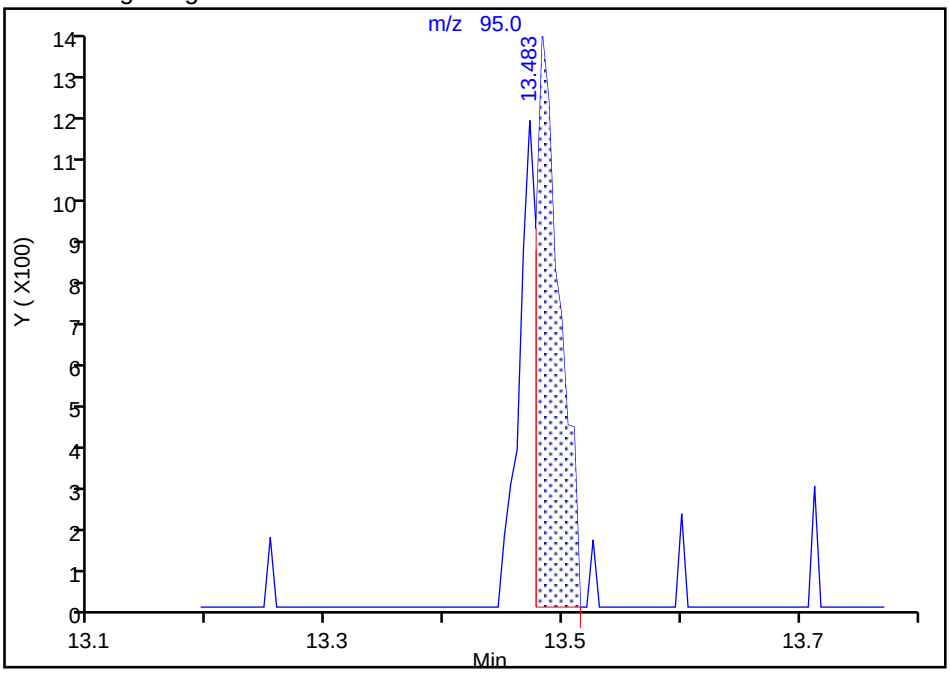
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d				
Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

51 Trichloroethene, CAS: 79-01-6

Signal: 1

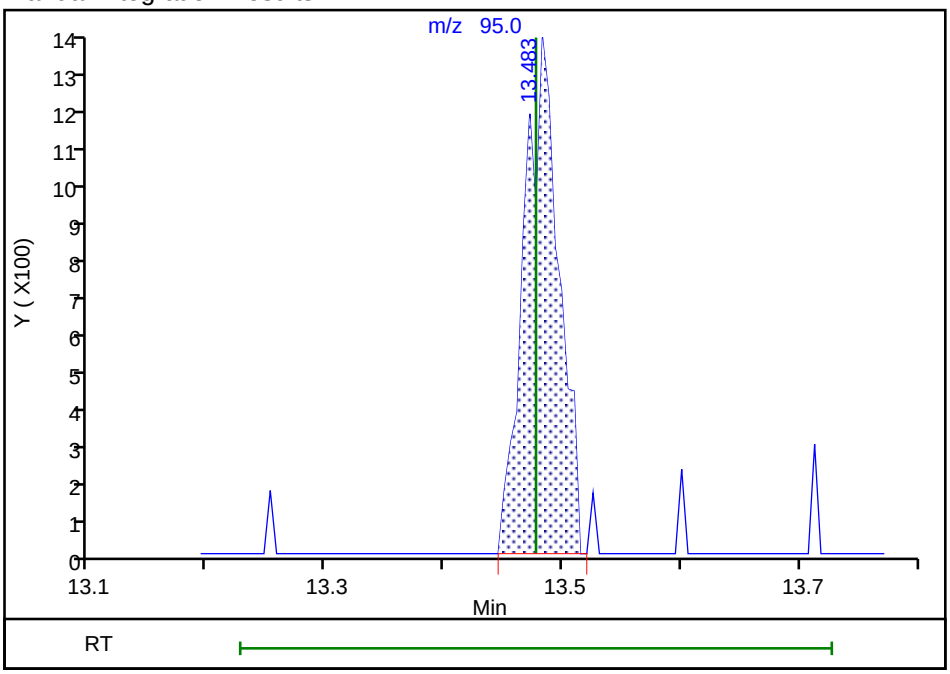
Processing Integration Results

RT: 13.48
Area: 1835
Amount: 0.033331
Amount Units: ppb v/v



Manual Integration Results

RT: 13.48
Area: 2733
Amount: 0.049642
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:45:00

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-65008-1

SDG No.:

Client Sample ID: 4570 | Lab Sample ID: 200-65008-12

Matrix: Air | Lab File ID: 52552-005.d

Analysis Method: TO-15 | Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/23/2022 12:56

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 183859 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65008-1

SDG No.:

Client Sample ID: 4570 Lab Sample ID: 200-65008-12

Matrix: Air Lab File ID: 52552-005.d

Analysis Method: TO-15 Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/23/2022 12:56

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 183859 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-005.d
Lims ID: 200-65008-A-12
Client ID: 4570
Sample Type: Client
Inject. Date: 23-Sep-2022 12:56:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0052552-005
Misc. Info.: 65008-12
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 25-Sep-2022 16:42:33 Calib Date: 09-Jul-2022 01:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220708-51593.b\51593-013.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: bunmaa Date: 25-Sep-2022 16:42:33

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.067				ND	7
	2 Dichlorodifluoromethane	85		4.163				ND	
	3 Chlorodifluoromethane	51		4.206				ND	7
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.511				ND	
	5 Chloromethane	50		4.624				ND	7
	6 Vinyl chloride	62		4.923				ND	
	7 Butane	43		4.923				ND	7
	8 Butadiene	54		5.035				ND	7
	9 Bromomethane	94		5.742				ND	
	10 Chloroethane	64		6.004				ND	7
	13 Vinyl bromide	106		6.421				ND	
	14 Trichlorofluoromethane	101		6.587				ND	
	16 Ethanol	45		6.956				ND	7
	20 1,1-Dichloroethene	96		7.635				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.678				ND	
	22 Acetone	43		7.721				ND	7
	23 Isopropyl alcohol	45		8.015				ND	
	24 Carbon disulfide	76	8.047	8.047	0.005	69	2838	0.0354	M
	26 3-Chloro-1-propene	41		8.331				ND	7
	27 Methylene Chloride	49	8.561	8.561	0.000	30	1891	0.0550	7M
	28 2-Methyl-2-propanol	59		8.786				ND	
	30 trans-1,2-Dichloroethene	61		9.058				ND	7
	31 Methyl tert-butyl ether	73		9.074				ND	7
	32 Hexane	57		9.561				ND	
	33 1,1-Dichloroethane	63		9.813				ND	7
	34 Vinyl acetate	43		9.829				ND	7
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.776				ND	7
	37 cis-1,2-Dichloroethene	96		10.797				ND	7
	38 Ethyl acetate	88		10.867				ND	
*	39 Chlorobromomethane	128	11.204	11.209	-0.005	75	235238	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.257				ND	7
	41 Chloroform	83		11.386				ND	
	42 1,1,1-Trichloroethane	97		11.685				ND	
	43 Cyclohexane	84		11.830				ND	
	44 Carbon tetrachloride	117		11.969				ND	
	45 Benzene	78		12.311				ND	7
	46 1,2-Dichloroethane	62		12.386				ND	
	47 Isooctane	57		12.536				ND	
	48 n-Heptane	43		12.846				ND	7
*	49 1,4-Difluorobenzene	114	13.049	13.049	0.000	95	1196286	10.0	
	51 Trichloroethene	95		13.477				ND	
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.028				ND	
	55 1,4-Dioxane	88		14.076				ND	7
	57 Dibromomethane	174	14.098	14.098	0.011	32	549	0.0101	7M
	58 Dichlorobromomethane	83		14.397				ND	
	59 cis-1,3-Dichloropropene	75		15.200				ND	7
	61 4-Methyl-2-pentanone (MIBK)	43		15.467				ND	7
	62 Toluene	92		15.842				ND	7
	66 trans-1,3-Dichloropropene	75		16.259				ND	7
	67 1,1,2-Trichloroethane	83		16.634				ND	
	68 Tetrachloroethene	166		16.832				ND	
	69 2-Hexanone	43		17.051				ND	7
	70 Chlorodibromomethane	129		17.367				ND	
	71 Ethylene Dibromide	107		17.602				ND	7
*	73 Chlorobenzene-d5	117	18.517	18.517	0.000	91	964591	10.0	
	74 Chlorobenzene	112		18.576				ND	7
	75 Ethylbenzene	91		18.773				ND	7
	76 m-Xylene & p-Xylene	106		19.036				ND	7
	78 o-Xylene	106		19.806				ND	
	79 Styrene	104		19.843				ND	7
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.196				ND	7
	82 Isopropylbenzene	105		20.534				ND	7
	83 1,1,2,2-Tetrachloroethane	83		21.063				ND	7
	85 N-Propylbenzene	91		21.272				ND	7
	86 2-Chlorotoluene	91		21.416				ND	7
	87 4-Ethyltoluene	105		21.475				ND	7
	88 1,3,5-Trimethylbenzene	105		21.571				ND	7
	91 tert-Butylbenzene	119		22.064				ND	7
	92 1,2,4-Trimethylbenzene	105		22.149				ND	MU
	93 sec-Butylbenzene	105		22.390				ND	7
	94 1,3-Dichlorobenzene	146	22.566	22.566	0.005	15	1395	0.0131	M
	95 4-Isopropyltoluene	119		22.609				ND	7
	96 1,4-Dichlorobenzene	146	22.716	22.716	0.010	31	1605	0.0159	M
	97 Benzyl chloride	91	22.877	22.877	0.022	13	1460	0.0116	M
	98 n-Butylbenzene	91		23.166				ND	7
	99 1,2-Dichlorobenzene	146	23.198	23.192	0.006	22	1606	0.0147	
	102 1,2,4-Trichlorobenzene	180		25.573				ND	7
	103 Hexachlorobutadiene	225		25.814				ND	7
	104 Naphthalene	128	26.033	26.033	0.000	1	2474	0.0157	M

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

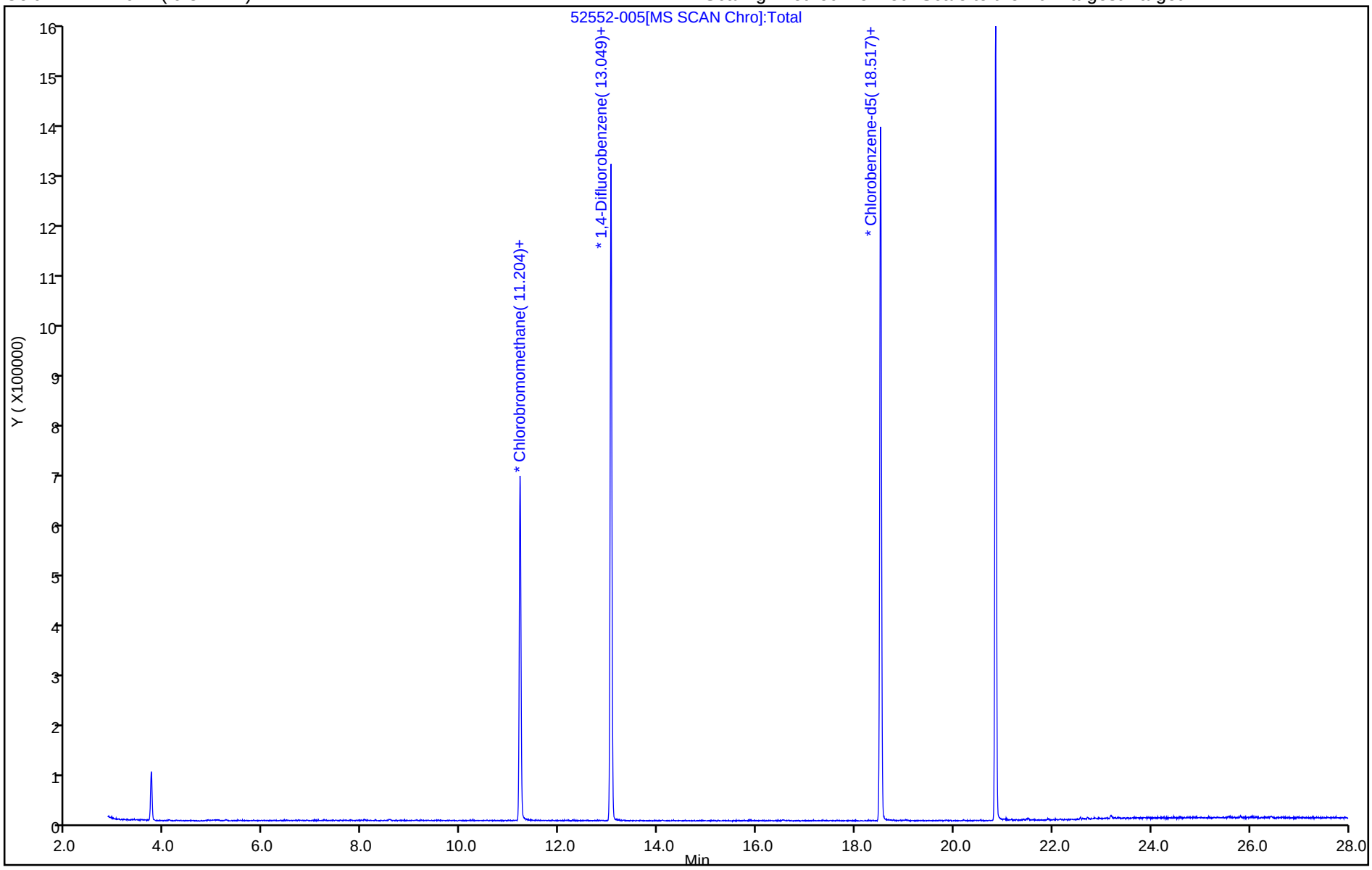
ATTO15WISs_00009	Amount Added: 20.00	Units: mL	Run Reagent

Report Date: 25-Sep-2022 16:42:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-005.d				
Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12	Worklist Smp#:	5
Client ID:	4570				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Burlington

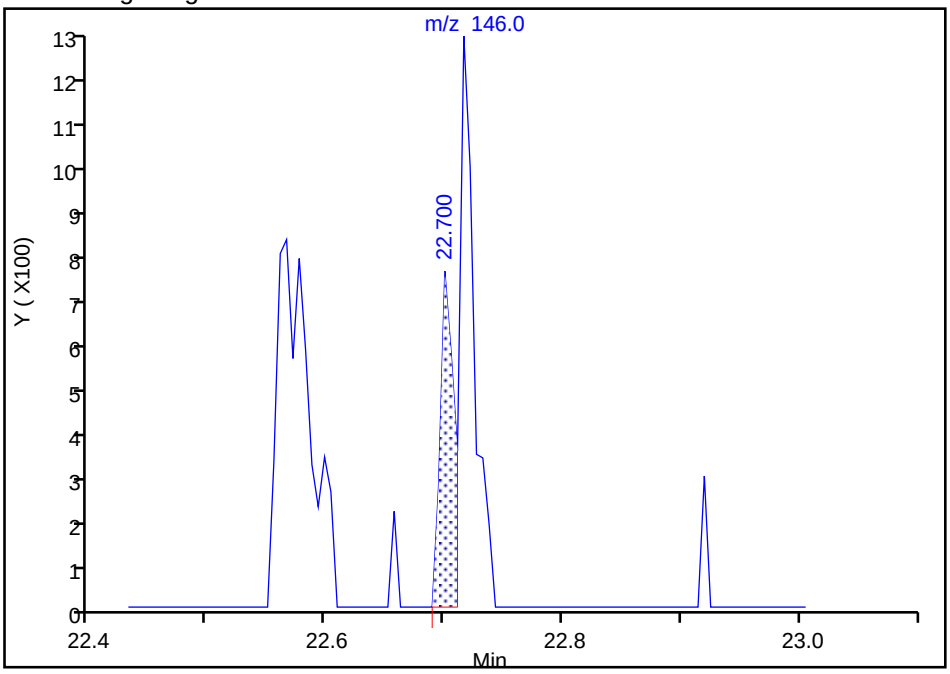
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Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

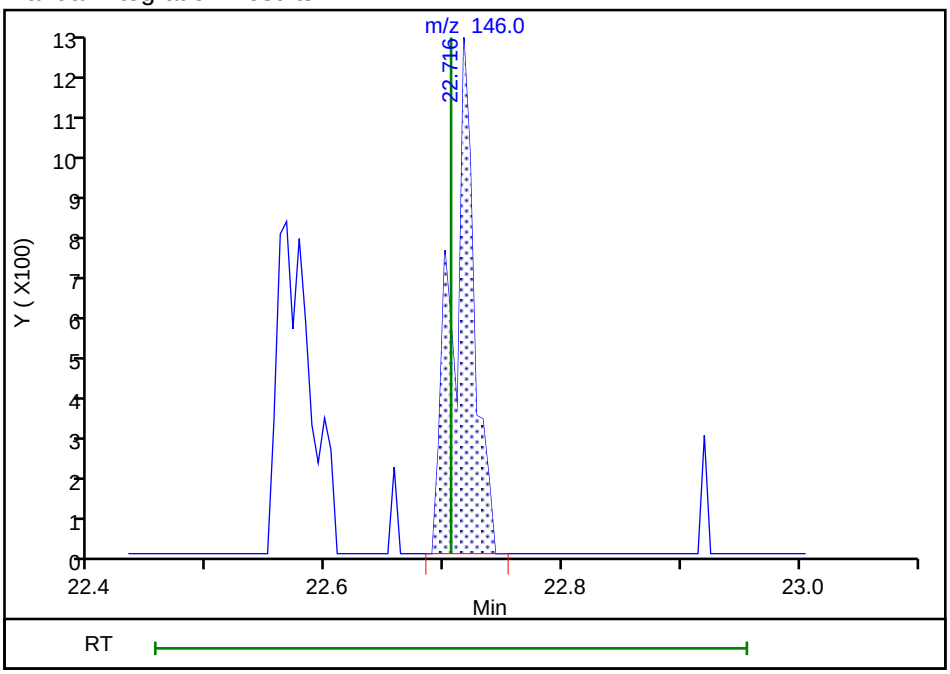
Processing Integration Results

RT: 22.70
Area: 615
Amount: 0.006108
Amount Units: ppb v/v



Manual Integration Results

RT: 22.72
Area: 1605
Amount: 0.015941
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:41:28

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

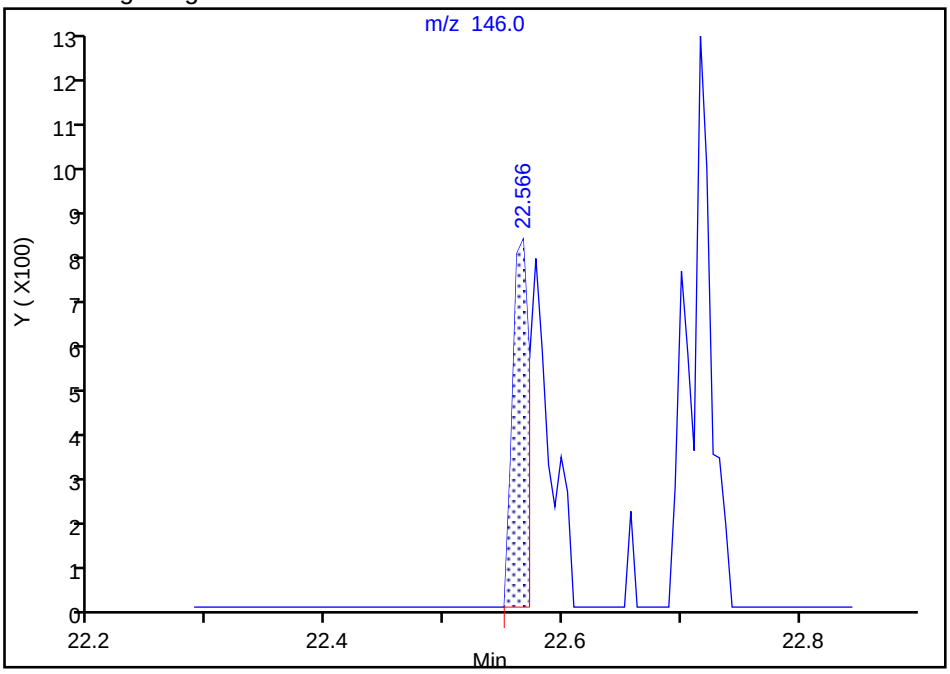
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Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

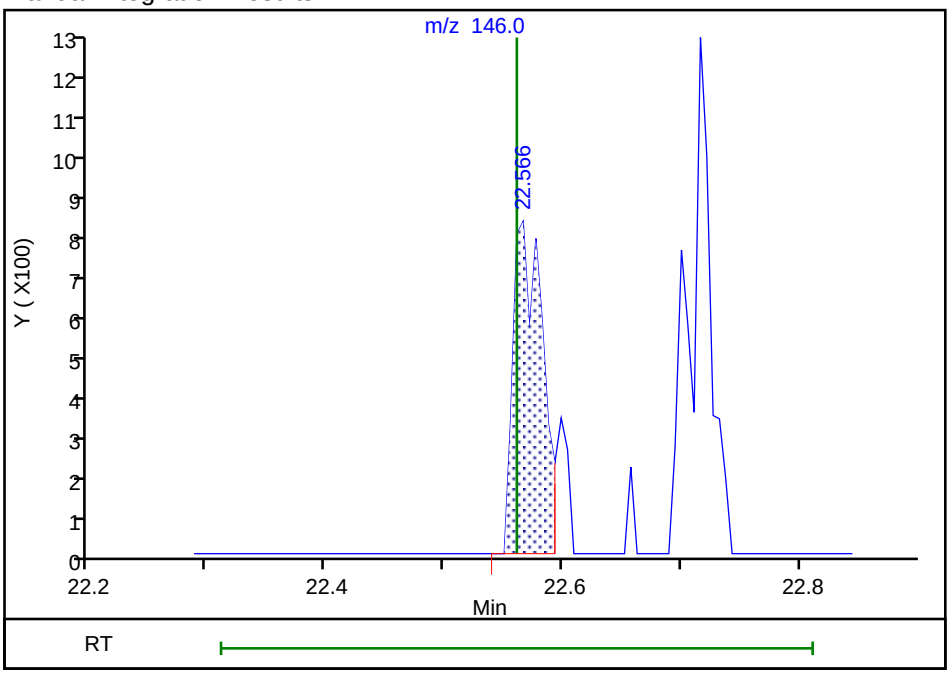
Processing Integration Results

RT: 22.57
Area: 793
Amount: 0.007446
Amount Units: ppb v/v



Manual Integration Results

RT: 22.57
Area: 1395
Amount: 0.013099
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:41:08

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

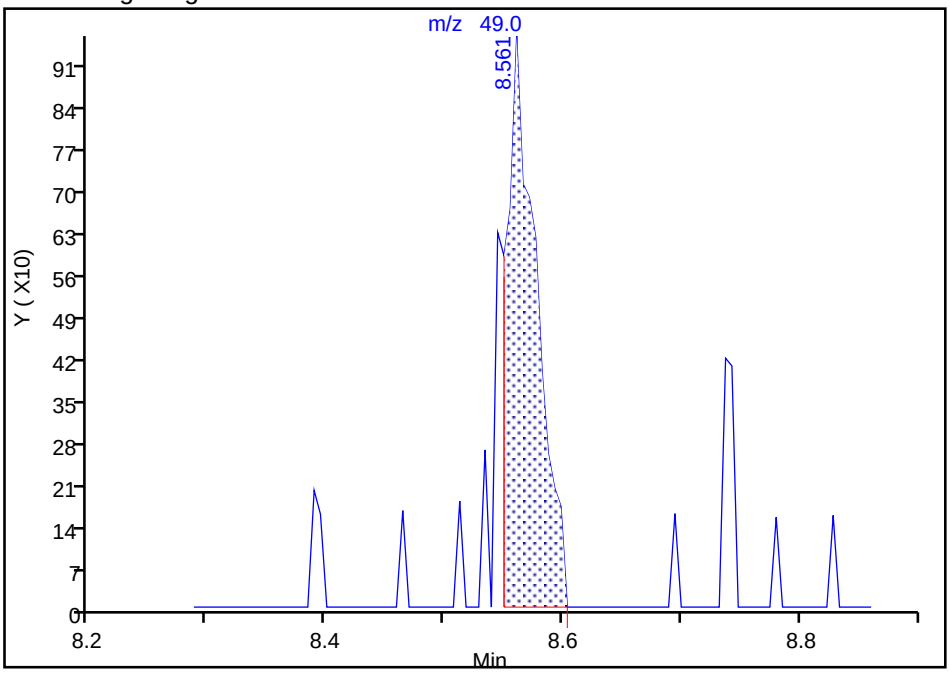
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Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i		
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

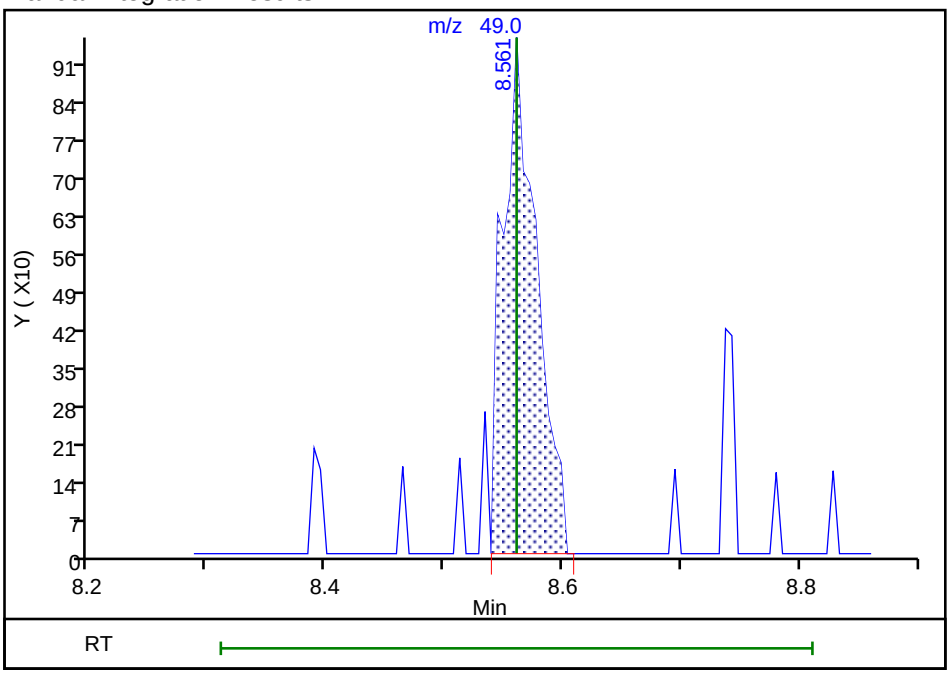
Processing Integration Results

RT: 8.56
Area: 1690
Amount: 0.049122
Amount Units: ppb v/v



Manual Integration Results

RT: 8.56
Area: 1891
Amount: 0.054964
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:38:41

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

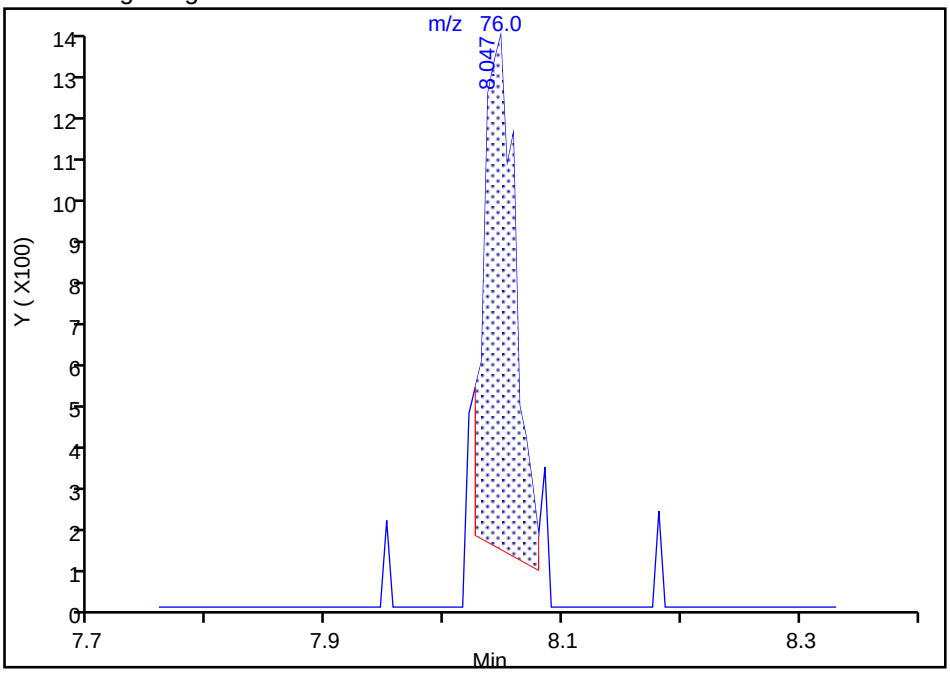
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Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i		
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

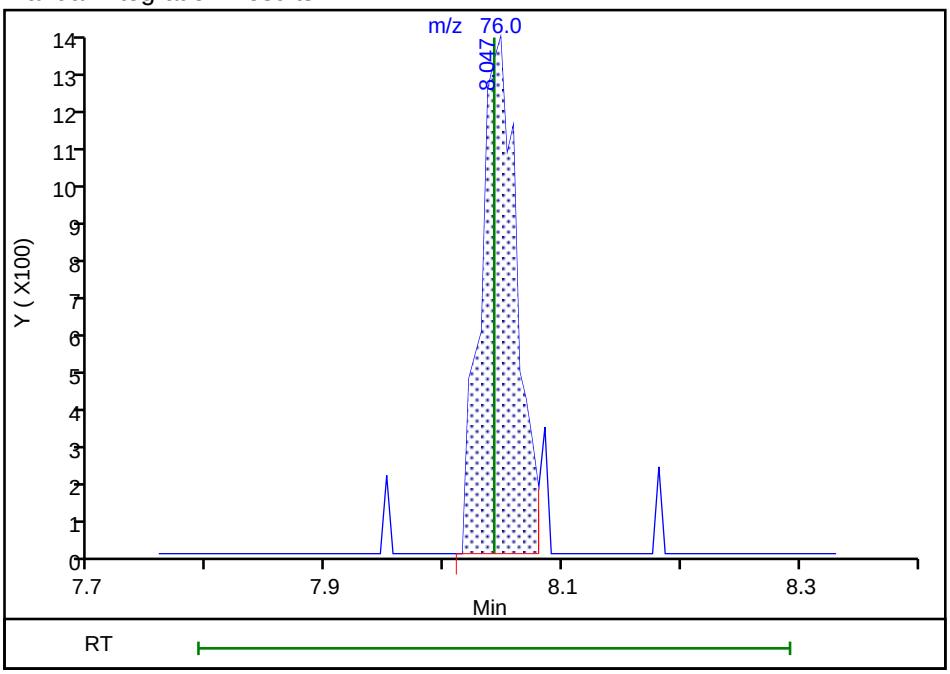
Processing Integration Results

RT: 8.05
Area: 2244
Amount: 0.027963
Amount Units: ppb v/v



Manual Integration Results

RT: 8.05
Area: 2838
Amount: 0.035365
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:38:21

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

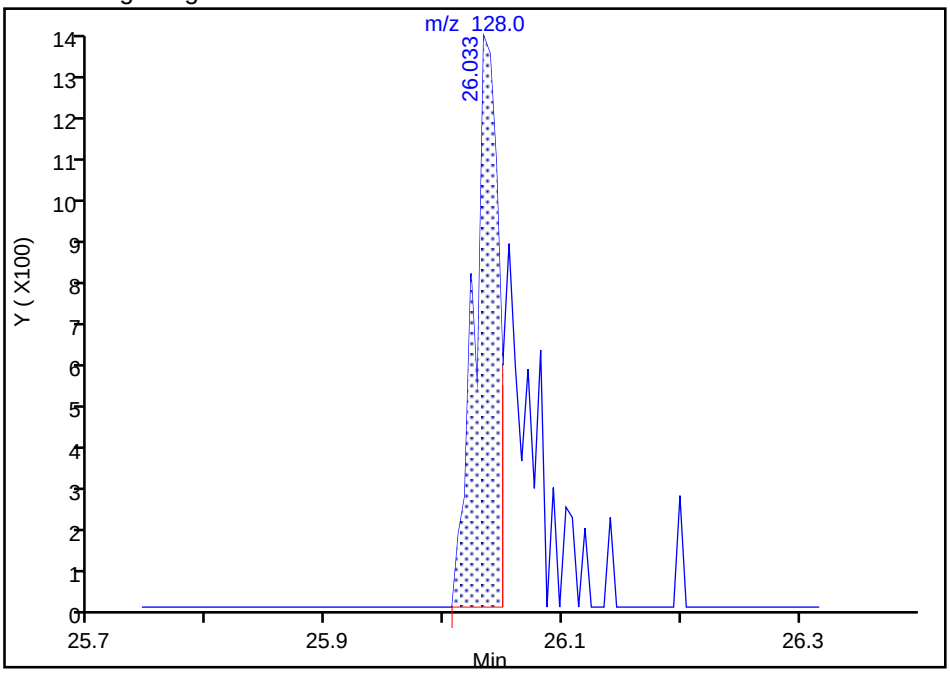
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-005.d				
Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i		
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

104 Naphthalene, CAS: 91-20-3

Signal: 1

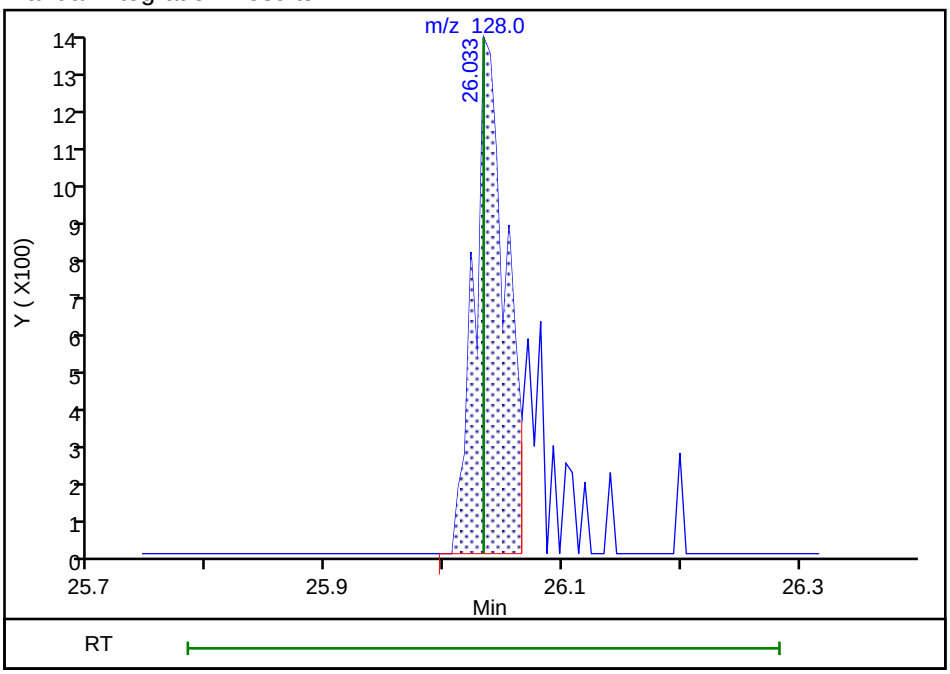
Processing Integration Results

RT: 26.03
Area: 1910
Amount: 0.012098
Amount Units: ppb v/v



Manual Integration Results

RT: 26.03
Area: 2474
Amount: 0.015671
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:42:20

Audit Action: Manually Integrated Audit Reason: Assign Peak

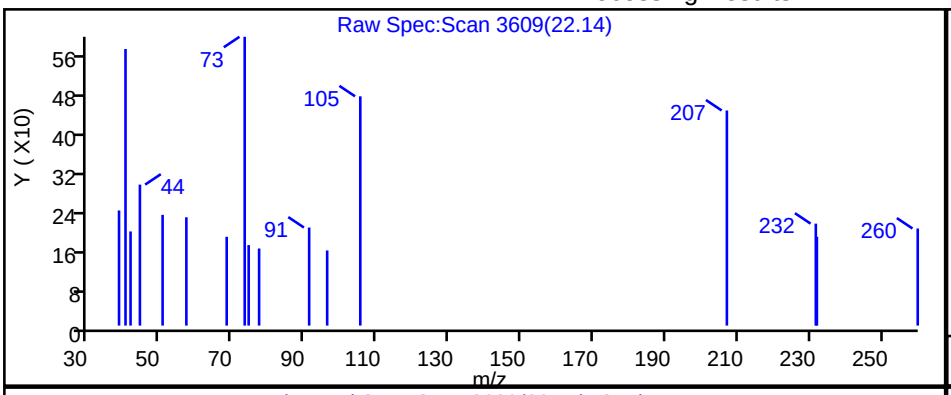
User Disabled Compound Report

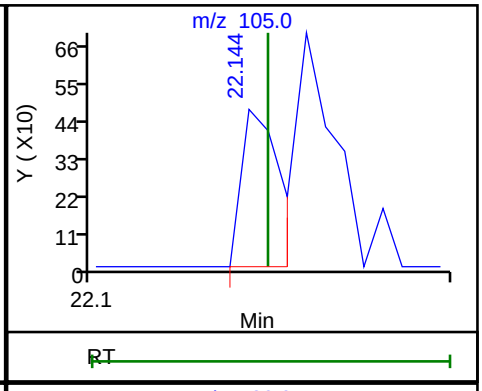
Eurofins Burlington

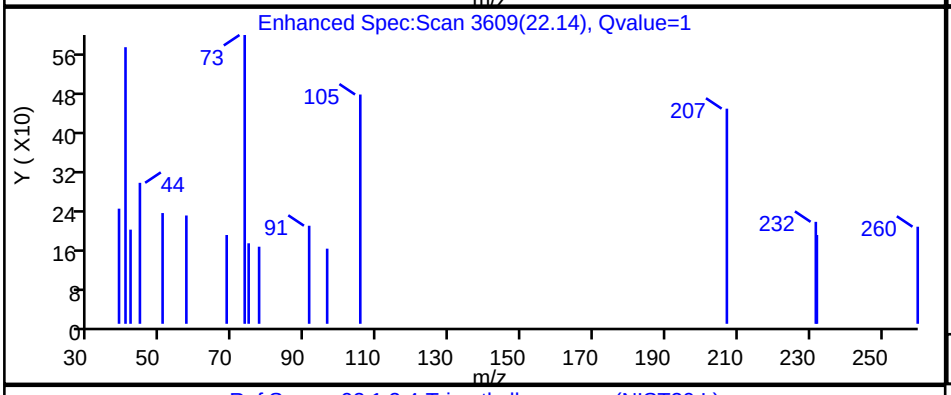
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Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i		
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

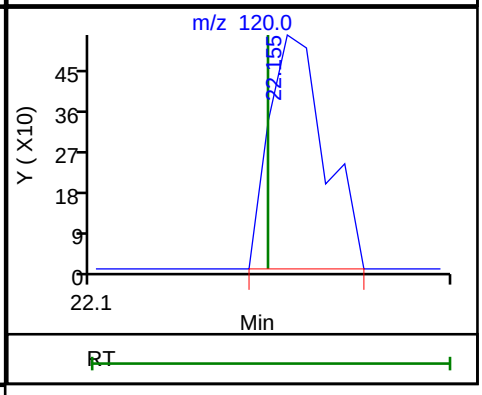
92 1,2,4-Trimethylbenzene, CAS: 95-63-6

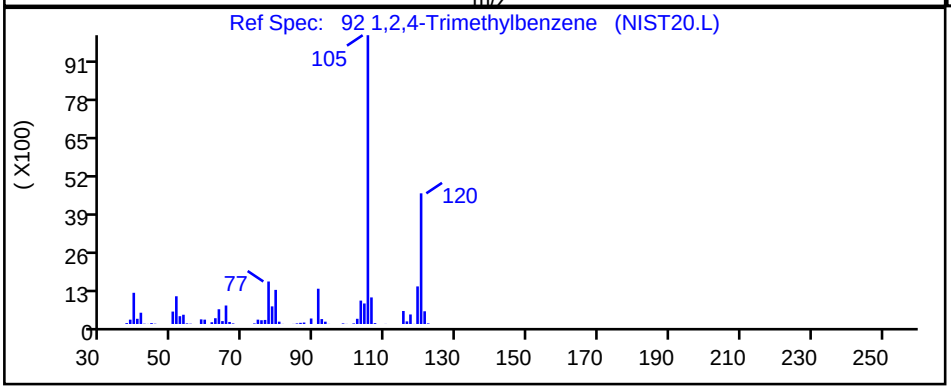
Processing Results











RT	Mass	Response	Amount
22.14	105.00	348	0.001847
22.15	120.00	569	

Reviewer: bunmaa, 25-Sep-2022 16:40:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-266752-1
Client Project/Site: Ikos Senior Living

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco

Melissa Haas

Authorized for release by:
10/11/2022 12:49:19 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@et.eurofinsus.com

LINKS

Review your project results through my EOL

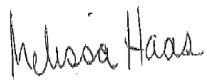
Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/11/2022 12:49:19 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
*	Duplicate analysis not within control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-266752-1

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Ikos Senior Living

Report Number: 460-266752-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/3/2022 7:00 PM, 10/4/2022 6:30 PM and 10/5/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 2.6º C, 2.6º C and 3.3º C.

Receipt Exceptions

The client requested that the soils and ground waters collected for this project be split into 2 separate COCs.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were prepared on 10/04/2022, 10/05/2022 and 10/06/2022 and analyzed on 10/05/2022, 10/06/2022, 10/07/2022 and 10/08/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870087 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870199 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

The continuing calibration verification (CCV) associated with batch 460-870378 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870277 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-870277 recovered outside control limits for the following analytes: Carbon tetrachloride, sec-Butylbenzene and tert-Butylbenzene. These analytes were biased low in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-870501 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane and n-Butylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870379 was outside the method criteria for the following analytes: Carbon tetrachloride, Chlorobromomethane, Bromoform and Methyl tert-butyl ether. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-870379 recovered outside control limits for the following analyte: Bromoform. This analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870690 was outside the method criteria for the following analytes: 1,3,5-Trimethylbenzene, Isopropylbenzene, N-Propylbenzene, n-Butylbenzene, sec-Butylbenzene and Tetrachloroethene (biased high) and Dichlorodifluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870776 was outside the method criteria for the following analytes: 1,1,2-Trichloro-1,2,2-trifluoroethane and 1,1-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-870776 recovered outside control limits for the following analyte: Carbon disulfide. This analyte was biased low in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Methods 8270E. The samples were prepared on 10/04/2022, 10/05/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/06/2022, 10/08/2022 and 10/09/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870154 was outside the method criteria for the following analyte(s): Benzaldehyde and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

The continuing calibration verification (CCV) associated with batch 460-870313 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870313 was outside the method criteria for the following analyte(s): 2-Nitroaniline and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870226 and analytical batch 460-870313 recovered outside control limits for the following analytes: Atrazine and Caprolactam. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870349 was outside the method criteria for the following analyte(s): < 2,4-Dinitrophenol, Atrazine and Benzaldehyde>. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870755 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870853 was outside the method criteria for the following analyte(s): 2-Nitrophenol, 4,6-Dinitro-2-methylphenol and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-01_0-2_20221005 (460-266877-1). Elevated reporting limits (RLs) are provided.

Several analytes failed the recovery criteria low for the MS of sample 460-266324-1 in batch 460-870755.

Several analytes failed the recovery criteria low for the MSD of sample 460-266324-1 in batch 460-870755.

Atrazine and Caprolactam failed the recovery criteria high for the MS of sample 460-266802-4 in batch 460-870313.

Atrazine and Caprolactam failed the recovery criteria high for the MSD of sample 460-266802-4 in batch 460-870313. Benzaldehyde exceeded the RPD limit.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 10/04/2022, 10/05/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/06/2022 and 10/10/2022.

The continuing calibration verification (CCV) associated with batch 460-870169 recovered above the upper control limit for beta-BHC on

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-870169/6).

The %RPD between the primary and confirmation column exceeded 40% for cis-Chlordane for the following sample: SB-02_0-2_20221003 (460-266752-1). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

The continuing calibration verification (CCV) associated with batch 460-870367 recovered above the upper control limit for beta-BHC on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-870367/3).

The %RPD between the primary and confirmation columns exceeded 40% for cis-Chlordane for the following sample: SB-05_0-2_20221004 (460-266826-1). The lower value has been reported and qualified in accordance with the laboratory's SOP.

4,4'-DDE, beta-BHC and Endrin aldehyde failed the recovery criteria low for the MSD of sample 460-266794-1 in batch 460-870367.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 10/04/2022, 10/05/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/06/2022 and 10/10/2022.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared on 10/05/2022, 10/06/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/07/2022 and 10/10/2022.

Antimony and Manganese failed the recovery criteria low for the MS of sample 460-266735-8 in batch 460-870271. Aluminum and Potassium failed the recovery criteria high.

Antimony and Manganese failed the recovery criteria low for the MSD of sample 460-266735-8 in batch 460-870271. Aluminum, Iron and Magnesium failed the recovery criteria high.

Antimony failed the recovery criteria low for the MS of sample 460-266794-1 in batch 460-870468. Several analytes failed the recovery criteria high.

For the MSD of sample 460-266794-1 in batch 460-870468, Antimony and Vanadium failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Calcium, Lead, Nickel and Vanadium exceeded the RPD limit.

Antimony, Calcium and Magnesium failed the recovery criteria low for the MS of sample SB-05_29-31_20221004MS (460-266826-2) in batch 460-870666. Aluminum, Iron and Manganese failed the recovery criteria high.

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

Several analytes failed the recovery criteria low for the MS of sample 460-266993-2 in batch 460-871052. Calcium, Iron, Lead and Vanadium failed the recovery criteria high.

For the MSD of sample 460-266993-2 in batch 460-871052, Potassium failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Arsenic, Copper, Iron and Manganese exceeded the RPD limit.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were prepared on 10/10/2022 and analyzed on 10/10/2022 and 10/11/2022.

No difficulties were encountered during the hexchrome Cr6 analysis.

All quality control parameters were within the acceptance limits.

MERCURY - TOTAL

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Mercury - Total in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 10/05/2022, 10/06/2022 and 10/10/2022.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 10/05/2022 and 10/10/2022.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_0-2_20221003 — Lab Sample ID: 460-266752-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0013		0.00020	0.000061	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.031	J	0.035	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.025	J	0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.033	J	0.035	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.35	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.014	J	0.035	0.0069	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.025	J	0.35	0.0060	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.039	J	0.35	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.035	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.015	J	0.35	0.0062	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.039	J	0.35	0.0088	mg/Kg	1	☼	8270E	Total/NA
Chlordane (technical)	0.057	J	0.072	0.017	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.0052	J p	0.0072	0.0011	mg/Kg	1	☼	8081B	Total/NA
Aroclor 1260	0.063	J	0.072	0.019	mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.063	J	0.072	0.019	mg/Kg	1	☼	8082A	Total/NA
Aluminum	4180		20.5	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.5		1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	36.3		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.24	J	0.41	0.058	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.14	J	1.0	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	7730		102	18.1	mg/Kg	1	☼	6020B	Total/NA
Chromium	9.5		2.0	0.93	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.7		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	12.5		2.0	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	7870		61.4	20.7	mg/Kg	1	☼	6020B	Total/NA
Lead	13.0		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4190		102	10.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	207		4.1	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	8.8		2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	744		102	16.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.16	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Sodium	275		102	46.7	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.11	J	0.41	0.042	mg/Kg	1	☼	6020B	Total/NA
Vanadium	14.8		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	36.2		8.2	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.15		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-02_31-33_20221003 — Lab Sample ID: 460-266752-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0071		0.0012	0.0011	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2810		18.9	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.61	J	0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	23.4		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.23	J	0.38	0.054	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.11	J	0.94	0.11	mg/Kg	1	☼	6020B	Total/NA
Calcium	21600		94.4	16.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.3		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Cobalt	2.9		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	9.5		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	6500		56.6	19.1	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample ID: SB-02_31-33_20221003 (Continued) — Lab Sample ID: 460-266752-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.0		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	12100		94.4	9.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	168		3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	6.7		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	522		94.4	15.3	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.17	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Sodium	201		94.4	43.1	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.069	J	0.38	0.039	mg/Kg	1	☼	6020B	Total/NA
Vanadium	9.8		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	15.2		7.6	2.9	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.070		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-03_0-2_20221003 — Lab Sample ID: 460-266752-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.049		0.039	0.014	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.041		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.057		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.39	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.022	J	0.039	0.0076	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.046	J	0.39	0.0066	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.076	J	0.39	0.014	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.035	J	0.39	0.0068	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.075	J	0.39	0.0097	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6790		22.2	6.1	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.16	J	1.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.5		1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	62.6		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.36	J	0.44	0.063	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.21	J	1.1	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	32300		111	19.6	mg/Kg	1	☼	6020B	Total/NA
Chromium	16.4		2.2	1.0	mg/Kg	1	☼	6020B	Total/NA
Cobalt	5.0		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	23.3		2.2	0.41	mg/Kg	1	☼	6020B	Total/NA
Iron	11300		66.6	22.4	mg/Kg	1	☼	6020B	Total/NA
Lead	81.7		0.67	0.22	mg/Kg	1	☼	6020B	Total/NA
Magnesium	5740		111	11.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	216		4.4	0.45	mg/Kg	1	☼	6020B	Total/NA
Nickel	13.5		2.2	0.52	mg/Kg	1	☼	6020B	Total/NA
Potassium	1360		111	18.0	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.18	J	1.4	0.14	mg/Kg	1	☼	6020B	Total/NA
Sodium	309		111	50.7	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.093	J	0.44	0.045	mg/Kg	1	☼	6020B	Total/NA
Vanadium	20.8		2.2	0.23	mg/Kg	1	☼	6020B	Total/NA
Zinc	65.1		8.9	3.4	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.077		0.018	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-03_31-33_20221003 — Lab Sample ID: 460-266752-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0012	0.0011	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-03_31-33_20221003 (Continued) — Lab Sample ID: 460-266752-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3030		20.0	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.86	J	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	19.1		2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.16	J	0.40	0.057	mg/Kg	1	☼	6020B	Total/NA
Calcium	1560		99.8	17.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	10.1		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Cobalt	2.6		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	8.2		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	6720		59.9	20.2	mg/Kg	1	☼	6020B	Total/NA
Lead	2.7		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	1940		99.8	10.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	177		4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Nickel	6.4		2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	510		99.8	16.2	mg/Kg	1	☼	6020B	Total/NA
Sodium	161		99.8	45.6	mg/Kg	1	☼	6020B	Total/NA
Vanadium	8.5		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	14.4		8.0	3.0	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.071		0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-04_0-2_20221003 — Lab Sample ID: 460-266752-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.025	J	0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.092		0.037	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.080		0.037	0.0098	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.11		0.037	0.0095	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.042	J	0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.036	J	0.037	0.0072	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.080	J	0.37	0.019	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.088	J	0.37	0.0062	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.17	J	0.37	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.048		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.10	J	0.37	0.0065	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.17	J	0.37	0.0092	mg/Kg	1	☼	8270E	Total/NA
Aluminum	9180		21.7	6.0	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.49	J	1.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Arsenic	4.0		1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	78.8		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.63		0.43	0.062	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.43	J	1.1	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	9950		109	19.2	mg/Kg	1	☼	6020B	Total/NA
Chromium	19.1		2.2	0.99	mg/Kg	1	☼	6020B	Total/NA
Cobalt	9.6		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	34.8		2.2	0.40	mg/Kg	1	☼	6020B	Total/NA
Iron	20700		65.1	21.9	mg/Kg	1	☼	6020B	Total/NA
Lead	80.0		0.65	0.22	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4900		109	11.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	689		4.3	0.44	mg/Kg	1	☼	6020B	Total/NA
Nickel	20.7		2.2	0.51	mg/Kg	1	☼	6020B	Total/NA
Potassium	2720		109	17.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.35	J	1.4	0.14	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-04_0-2_20221003 (Continued) — Lab Sample ID: 460-266752-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	301		109	49.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.21	J	0.43	0.045	mg/Kg	1	☼	6020B	Total/NA
Vanadium	31.6		2.2	0.22	mg/Kg	1	☼	6020B	Total/NA
Zinc	107		8.7	3.3	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.59		0.017	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-04_32-34_20221003 — Lab Sample ID: 460-266752-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4170		20.2	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.3		1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	35.4		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.26	J	0.40	0.058	mg/Kg	1	☼	6020B	Total/NA
Calcium	1230		101	17.9	mg/Kg	1	☼	6020B	Total/NA
Chromium	19.3		2.0	0.92	mg/Kg	1	☼	6020B	Total/NA
Cobalt	4.6		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	18.3		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	10400		60.7	20.4	mg/Kg	1	☼	6020B	Total/NA
Lead	6.1		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	2050		101	10.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	268		4.0	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	10.2		2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	826		101	16.4	mg/Kg	1	☼	6020B	Total/NA
Sodium	199		101	46.2	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.070	J	0.40	0.041	mg/Kg	1	☼	6020B	Total/NA
Vanadium	15.3		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	27.3		8.1	3.1	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB-07_0-2_20221003 — Lab Sample ID: 460-266752-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010		0.0013	0.0012	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.00024		0.00022	0.000066	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.061		0.037	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.056		0.037	0.0099	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.083		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.029	J	0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.035	J	0.037	0.0073	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.022	J	0.37	0.020	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.062	J	0.37	0.0063	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.094	J	0.37	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.037	0.015	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.039	J	0.37	0.0066	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.093	J	0.37	0.0093	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5980		21.0	5.8	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.20	J	1.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Arsenic	3.9		1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	66.6		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.31	J	0.42	0.060	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.33	J	1.0	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	27200		105	18.6	mg/Kg	1	☼	6020B	Total/NA
Chromium	15.1		2.1	0.95	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-07_0-2_20221003 (Continued) — Lab Sample ID: 460-266752-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.4		2.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	39.8		2.1	0.39	mg/Kg	1	☼	6020B	Total/NA
Iron	13300		62.9	21.2	mg/Kg	1	☼	6020B	Total/NA
Lead	131		0.63	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	11900		105	10.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	274		4.2	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	16.8		2.1	0.49	mg/Kg	1	☼	6020B	Total/NA
Potassium	1220		105	17.0	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.19	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Silver	0.11	J	0.42	0.093	mg/Kg	1	☼	6020B	Total/NA
Sodium	402		105	47.9	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.11	J	0.42	0.043	mg/Kg	1	☼	6020B	Total/NA
Vanadium	32.6		2.1	0.22	mg/Kg	1	☼	6020B	Total/NA
Zinc	109		8.4	3.2	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.11		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-07_32-34_20221003 — Lab Sample ID: 460-266752-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.031		0.0012	0.0012	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.00024		0.00020	0.000061	mg/Kg	1	☼	8260D	Total/NA
Aluminum	3830		19.9	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.0		1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	29.2		2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.22	J	0.40	0.057	mg/Kg	1	☼	6020B	Total/NA
Calcium	6370		99.7	17.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	10.2		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.6		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	15.4		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	8020		59.8	20.1	mg/Kg	1	☼	6020B	Total/NA
Lead	13.7		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4700		99.7	10.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	212		4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Nickel	8.1		2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	729		99.7	16.2	mg/Kg	1	☼	6020B	Total/NA
Sodium	170		99.7	45.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.062	J	0.40	0.041	mg/Kg	1	☼	6020B	Total/NA
Vanadium	13.4		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	21.4		8.0	3.0	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB-05_0-2_20221004 — Lab Sample ID: 460-266826-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0097		0.0011	0.00033	mg/Kg	1	☼	8260D	Total/NA
1,1'-Biphenyl	0.14	J	0.37	0.013	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.28	J	0.37	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthene	2.7		0.37	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.67		0.37	0.010	mg/Kg	1	☼	8270E	Total/NA
Anthracene	6.5		0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	7.5		0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	7.6		0.037	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	1.9		0.37	0.014	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-05_0-2_20221004 (Continued)

Lab Sample ID: 460-266826-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	2.7		0.037	0.016	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	1.2		0.37	0.012	mg/Kg	1	☼	8270E	Total/NA
Di-n-butyl phthalate	0.026	J	0.37	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluorene	2.5		0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.47		0.37	0.0063	mg/Kg	1	☼	8270E	Total/NA
N-Nitrosodiphenylamine	0.056	J	0.37	0.030	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene - DL	25		0.37	0.13	mg/Kg	10	☼	8270E	Total/NA
Benzo[a]pyrene - DL	23		0.37	0.098	mg/Kg	10	☼	8270E	Total/NA
Benzo[b]fluoranthene - DL	29		0.37	0.095	mg/Kg	10	☼	8270E	Total/NA
Chrysene - DL	23		3.7	0.062	mg/Kg	10	☼	8270E	Total/NA
Fluoranthene - DL	48		3.7	0.13	mg/Kg	10	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene - DL	17		0.37	0.14	mg/Kg	10	☼	8270E	Total/NA
Phenanthrene - DL	27		3.7	0.064	mg/Kg	10	☼	8270E	Total/NA
Pyrene - DL	38		3.7	0.091	mg/Kg	10	☼	8270E	Total/NA
4,4'-DDT	0.0063	J	0.0074	0.0014	mg/Kg	1	☼	8081B	Total/NA
Chlordane (technical)	0.12		0.074	0.018	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.013	p	0.0074	0.0012	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.0027		0.0022	0.00097	mg/Kg	1	☼	8081B	Total/NA
Aluminum	6680		21.8	6.0	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.30	J	1.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Arsenic	6.9		1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	119		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.40	J	0.44	0.062	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.66	J	1.1	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	18600		109	19.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	15.5		2.2	0.99	mg/Kg	1	☼	6020B	Total/NA
Cobalt	5.3		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	63.1		2.2	0.40	mg/Kg	1	☼	6020B	Total/NA
Iron	13600		65.3	22.0	mg/Kg	1	☼	6020B	Total/NA
Lead	283		0.65	0.22	mg/Kg	1	☼	6020B	Total/NA
Magnesium	5510		109	11.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	265		4.4	0.44	mg/Kg	1	☼	6020B	Total/NA
Nickel	16.3		2.2	0.51	mg/Kg	1	☼	6020B	Total/NA
Potassium	1050		109	17.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.48	J	1.4	0.14	mg/Kg	1	☼	6020B	Total/NA
Silver	0.25	J	0.44	0.097	mg/Kg	1	☼	6020B	Total/NA
Sodium	444		109	49.7	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.13	J	0.44	0.045	mg/Kg	1	☼	6020B	Total/NA
Vanadium	28.1		2.2	0.22	mg/Kg	1	☼	6020B	Total/NA
Zinc	149		8.7	3.3	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.094		0.019	0.0089	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.14		0.0096	0.0092	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0014	J	0.0016	0.00049	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.030	J	0.34	0.0097	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.037	J	0.34	0.0098	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.080	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.27		0.034	0.012	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-05_29-31_20221004 (Continued) — Lab Sample ID: 460-266826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.29		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.39		0.034	0.0088	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.3		0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.14		0.034	0.0067	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.023	J	0.34	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.20	J	0.34	0.0058	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.22		0.034	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.46		0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.018	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.0062	J	0.34	0.0059	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.18	J	0.34	0.0060	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.39		0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	3380		20.7	5.7	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.72	J	1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	22.4		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.19	J	0.41	0.059	mg/Kg	1	☼	6020B	Total/NA
Calcium	18100		104	18.4	mg/Kg	1	☼	6020B	Total/NA
Chromium	9.7		2.1	0.94	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.0		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	8.9		2.1	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	6800		62.2	20.9	mg/Kg	1	☼	6020B	Total/NA
Lead	4.8		0.62	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	9550		104	10.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	190		4.1	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	6.7		2.1	0.49	mg/Kg	1	☼	6020B	Total/NA
Potassium	694		104	16.8	mg/Kg	1	☼	6020B	Total/NA
Sodium	175		104	47.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	12.5		2.1	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	16.4		8.3	3.2	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB-06_0-2_20221004 — Lab Sample ID: 460-266826-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.010	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.028	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.13		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.17		0.036	0.0094	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.062	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.066		0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.11	J	0.36	0.0061	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.22	J	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.12	J	0.36	0.0064	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.21	J	0.36	0.0090	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6750		20.8	5.7	mg/Kg	1	☼	6020B	Total/NA
Arsenic	3.4		1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	37.3		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.41	J	0.42	0.059	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.16	J	1.0	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	8910		104	18.4	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-06_0-2_20221004 (Continued) — Lab Sample ID: 460-266826-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12.3		2.1	0.95	mg/Kg	1	☼	6020B	Total/NA
Cobalt	6.0		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	27.7		2.1	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	11500		62.5	21.0	mg/Kg	1	☼	6020B	Total/NA
Lead	30.4		0.62	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	3720		104	10.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	335		4.2	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	12.3		2.1	0.49	mg/Kg	1	☼	6020B	Total/NA
Potassium	763		104	16.9	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.19	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Sodium	281		104	47.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.079	J	0.42	0.043	mg/Kg	1	☼	6020B	Total/NA
Vanadium	17.2		2.1	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	42.5		8.3	3.2	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.075		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-06_29-31_20221004 — Lab Sample ID: 460-266826-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.00087	J	0.0012	0.00037	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.023	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.053		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.049	J	0.34	0.0058	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.10	J	0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.071		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.076	J	0.34	0.0060	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.10	J	0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	3730		20.1	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.79	J	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	23.0		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.19	J	0.40	0.057	mg/Kg	1	☼	6020B	Total/NA
Calcium	22200		101	17.8	mg/Kg	1	☼	6020B	Total/NA
Chromium	9.1		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.7		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	9.6		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	8350		60.4	20.3	mg/Kg	1	☼	6020B	Total/NA
Lead	2.2		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	14700		101	10.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	176		4.0	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	7.9		2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	918		101	16.3	mg/Kg	1	☼	6020B	Total/NA
Sodium	281		101	46.0	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.049	J	0.40	0.041	mg/Kg	1	☼	6020B	Total/NA
Vanadium	15.5		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	22.7		8.1	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.034		0.016	0.0075	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-01_0-2_20221005 — Lab Sample ID: 460-266877-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.00055	J	0.0013	0.00033	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-01_0-2_20221005 (Continued)

Lab Sample ID: 460-266877-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	0.081	J	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.28	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthene	0.84		0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.22	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Anthracene	2.3		0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	6.5		0.036	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	5.3		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	7.1		0.036	0.0093	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	3.3		0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.3		0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.86		0.36	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	6.0		0.36	0.0061	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.95		0.036	0.016	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.50		0.36	0.012	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.77		0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	4.2		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.37		0.36	0.0062	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene - DL	18		1.8	0.063	mg/Kg	5	☼	8270E	Total/NA
Phenanthrene - DL	16		1.8	0.032	mg/Kg	5	☼	8270E	Total/NA
Pyrene - DL	17		1.8	0.045	mg/Kg	5	☼	8270E	Total/NA
4,4'-DDT	0.0033	J	0.0073	0.0013	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.0020	J	0.0022	0.00095	mg/Kg	1	☼	8081B	Total/NA
Aluminum	5960		17.3	4.8	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.25	J	0.87	0.13	mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.2		0.87	0.089	mg/Kg	1	☼	6020B	Total/NA
Barium	35.1		1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.32	J	0.35	0.049	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.098	J	0.87	0.098	mg/Kg	1	☼	6020B	Total/NA
Calcium	5840		86.6	15.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	16.7		1.7	0.79	mg/Kg	1	☼	6020B	Total/NA
Cobalt	5.2		1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	15.2		1.7	0.32	mg/Kg	1	☼	6020B	Total/NA
Iron	10500		51.9	17.5	mg/Kg	1	☼	6020B	Total/NA
Lead	19.1		0.52	0.17	mg/Kg	1	☼	6020B	Total/NA
Magnesium	2460		86.6	8.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	338		3.5	0.35	mg/Kg	1	☼	6020B	Total/NA
Nickel	12.1		1.7	0.41	mg/Kg	1	☼	6020B	Total/NA
Potassium	714		86.6	14.0	mg/Kg	1	☼	6020B	Total/NA
Sodium	152		86.6	39.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.058	J	0.35	0.035	mg/Kg	1	☼	6020B	Total/NA
Vanadium	21.8		1.7	0.18	mg/Kg	1	☼	6020B	Total/NA
Zinc	28.9		6.9	2.6	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.018		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-01_31-33_20221005

Lab Sample ID: 460-266877-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.16		0.0079	0.0075	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0020		0.0013	0.00040	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2340		16.1	4.4	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.62	J	0.81	0.083	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-01_31-33_20221005 (Continued)

Lab Sample ID: 460-266877-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	20.7		1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.12	J	0.32	0.046	mg/Kg	1	☼	6020B	Total/NA
Calcium	7590		80.7	14.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.0		1.6	0.73	mg/Kg	1	☼	6020B	Total/NA
Cobalt	2.9		1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Copper	6.8		1.6	0.30	mg/Kg	1	☼	6020B	Total/NA
Iron	5240		48.4	16.3	mg/Kg	1	☼	6020B	Total/NA
Lead	2.8		0.48	0.16	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4370		80.7	8.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	183		3.2	0.33	mg/Kg	1	☼	6020B	Total/NA
Nickel	5.7		1.6	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	383		80.7	13.1	mg/Kg	1	☼	6020B	Total/NA
Sodium	117		80.7	36.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.4		1.6	0.17	mg/Kg	1	☼	6020B	Total/NA
Zinc	10.2		6.5	2.5	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid
Percent Solids: 93.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000043	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000061	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000041	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000092	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000073	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000073	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
2-Butanone (MEK)	0.0010	U	0.0010	0.000074	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
2-Hexanone	0.0010	U	0.0010	0.00034	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
4-Methyl-2-pentanone (MIBK)	0.0010	U	0.0010	0.00031	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Acetone	0.0012	U	0.0012	0.0011	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Benzene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Bromoform	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Bromomethane	0.00040	U	0.00040	0.00020	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Carbon disulfide	0.00020	U	0.00020	0.000053	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Carbon tetrachloride	0.00020	U	0.00020	0.000078	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chlorobromomethane	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chlorodibromomethane	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chloroethane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chloroform	0.00020	U	0.00020	0.00020	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chloromethane	0.00020	U	0.00020	0.000087	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Cyclohexane	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Dichlorobromomethane	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000068	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Ethylbenzene	0.00020	U	0.00020	0.000040	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Ethylene Dibromide	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Isopropylbenzene	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methyl acetate	0.0010	U	0.0010	0.00086	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methylcyclohexane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methylene Chloride	0.00040	U	0.00040	0.00023	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
n-Butylbenzene	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
N-Propylbenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
o-Xylene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
sec-Butylbenzene	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Styrene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1

Client Sample ID: SB-02_0-2_20221003

Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1

Matrix: Solid
Percent Solids: 93.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Tetrachloroethene	**0.0013**		0.00020	0.000061	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Toluene	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000053	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Trichloroethene	0.00020	U	0.00020	0.000065	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000082	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Xylenes, Total	0.00040	U	0.00040	0.000035	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*	*10/04/22 13:27*	*10/05/22 17:15*	*1*
4-Bromofluorobenzene	*104*		*75 - 139*	*10/04/22 13:27*	*10/05/22 17:15*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 139*	*10/04/22 13:27*	*10/05/22 17:15*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*	*10/04/22 13:27*	*10/05/22 17:15*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
1,2,4,5-Tetrachlorobenzene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
1,4-Dioxane	0.035	U	0.035	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,2'-oxybis[1-chloropropane]	0.35	U	0.35	0.0064	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,3,4,6-Tetrachlorophenol	0.35	U	0.35	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.036	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dichlorophenol	0.14	U	0.14	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dimethylphenol	0.35	U	0.35	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dinitrophenol	0.28	U	0.28	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dinitrotoluene	0.072	U	0.072	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,6-Dinitrotoluene	0.072	U	0.072	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Chloronaphthalene	0.35	U	0.35	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Chlorophenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Methylnaphthalene	0.35	U	0.35	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Methylphenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Nitroaniline	0.35	U	0.35	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Nitrophenol	0.35	U	0.35	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
3 & 4 Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
3-Nitroaniline	0.35	U	0.35	0.084	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4,6-Dinitro-2-methylphenol	0.28	U	0.28	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Bromophenyl phenyl ether	0.35	U	0.35	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Chloroaniline	0.35	U	0.35	0.063	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Chlorophenyl phenyl ether	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Nitroaniline	0.35	U	0.35	0.041	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Acenaphthene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Acenaphthylene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Acetophenone	0.35	U	0.35	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid
Percent Solids: 93.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Atrazine	0.14	U	0.14	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzaldehyde	0.35	U	0.35	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[a]anthracene	**0.031**	**J**	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[a]pyrene	**0.025**	**J**	0.035	0.0094	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[b]fluoranthene	**0.033**	**J**	0.035	0.0091	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[k]fluoranthene	**0.014**	**J**	0.035	0.0069	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Bis(2-chloroethoxy)methane	0.35	U	0.35	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Bis(2-chloroethyl)ether	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Bis(2-ethylhexyl) phthalate	0.35	U	0.35	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Butyl benzyl phthalate	0.35	U	0.35	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Caprolactam	0.35	U	0.35	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Carbazole	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Chrysene	**0.025**	**J**	0.35	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Dibenzofuran	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Diethyl phthalate	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Dimethyl phthalate	0.35	U	0.35	0.080	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Di-n-butyl phthalate	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Di-n-octyl phthalate	0.35	U	0.35	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Fluoranthene	**0.039**	**J**	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Fluorene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachlorobenzene	0.035	U	0.035	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachlorobutadiene	0.072	U	0.072	0.0075	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachlorocyclopentadiene	0.35	U	0.35	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachloroethane	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Indeno[1,2,3-cd]pyrene	**0.018**	**J**	0.035	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Isophorone	0.14	U	0.14	0.10	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Naphthalene	0.35	U	0.35	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Nitrobenzene	0.035	U	0.035	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
N-Nitrosodi-n-propylamine	0.035	U	0.035	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
N-Nitrosodiphenylamine	0.35	U	0.35	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Pentachlorophenol	0.28	U	0.28	0.072	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Phenanthrene	**0.015**	**J**	0.35	0.0062	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Phenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Pyrene	**0.039**	**J**	0.35	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 123*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
2-Fluorobiphenyl	*84*		*22 - 122*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 123*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
Nitrobenzene-d5 (Surr)	*74*		*16 - 125*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
Phenol-d5 (Surr)	*70*		*23 - 120*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
Terphenyl-d14 (Surr)	*87*		*25 - 126*	*10/04/22 18:31*	*10/05/22 06:08*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0072	U	0.0072	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
4,4'-DDE	0.0072	U	0.0072	0.00084	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1

Client Sample ID: SB-02_0-2_20221003

Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1

Matrix: Solid
Percent Solids: 93.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0072	U	0.0072	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Aldrin	0.0072	U	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
alpha-BHC	0.0021	U	0.0021	0.00073	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
beta-BHC	0.0021	U	0.0021	0.00080	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Chlordane (technical)	**0.057**	**J**	0.072	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
cis-Chlordane	**0.0052**	**J p**	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
delta-BHC	0.0021	U	0.0021	0.00044	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Dieldrin	0.0021	U	0.0021	0.00093	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endosulfan I	0.0072	U	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endosulfan II	0.0072	U	0.0072	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endosulfan sulfate	0.0072	U	0.0072	0.00090	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endrin	0.0072	U	0.0072	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endrin aldehyde	0.0072	U	0.0072	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endrin ketone	0.0072	U	0.0072	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00066	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Heptachlor	0.0072	U	0.0072	0.00084	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Heptachlor epoxide	0.0072	U	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Methoxychlor	0.0072	U	0.0072	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Toxaphene	0.072	U	0.072	0.026	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:18*	*1*
DCB Decachlorobiphenyl	*69*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:18*	*1*
Tetrachloro-m-xylene	*93*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:18*	*1*
Tetrachloro-m-xylene	*88*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:18*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1221	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1232	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1242	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1248	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1254	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1260	**0.063**	**J**	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor-1262	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1268	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Polychlorinated biphenyls, Total	**0.063**	**J**	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*10 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*
DCB Decachlorobiphenyl	*93*		*10 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*
Tetrachloro-m-xylene	*91*		*42 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4180**		20.5	5.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Arsenic	**1.5**		1.0	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1

Client Sample ID: SB-02_0-2_20221003

Lab Sample ID: 460-266752-1
Date Collected: 10/03/22 09:10
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 93.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	36.3		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Beryllium	0.24	J	0.41	0.058	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Cadmium	0.14	J	1.0	0.12	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Calcium	7730		102	18.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Chromium	9.5		2.0	0.93	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Cobalt	3.7		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Copper	12.5		2.0	0.38	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Iron	7870		61.4	20.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Lead	13.0		0.61	0.20	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Magnesium	4190		102	10.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Manganese	207		4.1	0.41	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Nickel	8.8		2.0	0.48	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Potassium	744		102	16.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Selenium	0.16	J	1.3	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Silver	0.41	U	0.41	0.091	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Sodium	275		102	46.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Thallium	0.11	J	0.41	0.042	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Vanadium	14.8		2.0	0.21	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Zinc	36.2		8.2	3.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.017	0.0082	mg/Kg	☼	10/05/22 00:06	10/05/22 04:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.91	mg/Kg	☼	10/10/22 08:32	10/10/22 13:40	1
Percent Moisture (EPA Moisture)	6.9		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	93.1		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-02_31-33_20221003

Lab Sample ID: 460-266752-2
Date Collected: 10/03/22 09:15
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00019	U	0.00019	0.000045	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1,2,2-Tetrachloroethane	0.00019	U	0.00019	0.000041	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00019	U	0.00019	0.000058	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1,2-Trichloroethane	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1-Dichloroethane	0.00019	U	0.00019	0.000040	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1-Dichloroethene	0.00019	U	0.00019	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2,3-Trichlorobenzene	0.00019	U	0.00019	0.000035	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2,4-Trichlorobenzene	0.00019	U	0.00019	0.000069	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2,4-Trimethylbenzene	0.00019	U	0.00019	0.000048	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dibromo-3-Chloropropane	0.00019	U	0.00019	0.000089	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dichlorobenzene	0.00019	U	0.00019	0.000070	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dichloroethane	0.00019	U	0.00019	0.000057	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dichloropropane	0.00019	U	0.00019	0.000082	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,3,5-Trimethylbenzene	0.00019	U	0.00019	0.000061	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00019	U	0.00019	0.000071	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,4-Dichlorobenzene	0.00019	U	0.00019	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
2-Butanone (MEK)	0.00097	U	0.00097	0.000071	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
2-Hexanone	0.00097	U	0.00097	0.00033	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
4-Methyl-2-pentanone (MIBK)	0.00097	U	0.00097	0.00030	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Acetone	**0.0071**		0.0012	0.0011	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Benzene	0.00019	U	0.00019	0.000050	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Bromoform	0.00019	U	0.00019	0.000082	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Bromomethane	0.00039	U	0.00039	0.00019	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Carbon disulfide	0.00019	U	0.00019	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Carbon tetrachloride	0.00019	U	0.00019	0.000075	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chlorobenzene	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chlorobromomethane	0.00019	U	0.00019	0.000054	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chlorodibromomethane	0.00019	U	0.00019	0.000038	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chloroethane	0.00019	U	0.00019	0.00010	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chloroform	0.00019	U	0.00019	0.00019	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chloromethane	0.00019	U	0.00019	0.000084	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
cis-1,2-Dichloroethene	0.00019	U	0.00019	0.000069	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
cis-1,3-Dichloropropene	0.00019	U	0.00019	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Cyclohexane	0.00019	U	0.00019	0.000043	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Dichlorobromomethane	0.00019	U	0.00019	0.000050	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Dichlorodifluoromethane	0.00019	U	0.00019	0.000065	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Ethylbenzene	0.00019	U	0.00019	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Ethylene Dibromide	0.00019	U	0.00019	0.000035	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Isopropylbenzene	0.00019	U	0.00019	0.000055	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methyl acetate	0.00097	U	0.00097	0.00083	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methyl tert-butyl ether	0.00019	U	0.00019	0.000099	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methylcyclohexane	0.00019	U	0.00019	0.000097	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methylene Chloride	0.00039	U	0.00039	0.00022	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
m-Xylene & p-Xylene	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
n-Butylbenzene	0.00019	U	0.00019	0.000057	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
N-Propylbenzene	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
o-Xylene	0.00019	U	0.00019	0.000038	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
sec-Butylbenzene	0.00019	U	0.00019	0.000056	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Styrene	0.00019	U	0.00019	0.000054	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
tert-Butylbenzene	0.00019	U	0.00019	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Tetrachloroethene	0.00019	U	0.00019	0.000059	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Toluene	0.00019	U	0.00019	0.000045	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
trans-1,2-Dichloroethene	0.00019	U	0.00019	0.000048	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
trans-1,3-Dichloropropene	0.00019	U	0.00019	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Trichloroethene	0.00019	U	0.00019	0.000062	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Trichlorofluoromethane	0.00019	U	0.00019	0.000079	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Vinyl chloride	0.00019	U	0.00019	0.00011	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Xylenes, Total	0.00039	U	0.00039	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*	*10/04/22 13:28*	*10/05/22 17:39*	*1*
4-Bromofluorobenzene	*101*		*75 - 139*	*10/04/22 13:28*	*10/05/22 17:39*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*10/04/22 13:28*	*10/05/22 17:39*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*10/04/22 13:28*	*10/05/22 17:39*	*1*

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.043	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dimethylphenol	0.34	U	0.34	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dinitrotoluene	0.069	U	0.069	0.036	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,6-Dinitrotoluene	0.069	U	0.069	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
3-Nitroaniline	0.34	U	0.34	0.080	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Nitrophenol	0.69	U	0.69	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Acenaphthene	0.34	U	0.34	0.0096	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[a]pyrene	0.034	U	0.034	0.0090	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0066	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Chrysene	0.34	U	0.34	0.0057	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Fluorene	0.34	U	0.34	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachlorobutadiene	0.069	U	0.069	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Pentachlorophenol	0.27	U	0.27	0.069	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Phenanthrene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Phenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Pyrene	0.34	U	0.34	0.0084	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*10 - 123*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
2-Fluorobiphenyl	*82*		*22 - 122*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
2-Fluorophenol (Surr)	*71*		*18 - 123*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
Nitrobenzene-d5 (Surr)	*70*		*16 - 125*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
Phenol-d5 (Surr)	*68*		*23 - 120*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
Terphenyl-d14 (Surr)	*88*		*25 - 126*	*10/04/22 18:31*	*10/05/22 06:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
alpha-BHC	0.0020	U	0.0020	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
beta-BHC	0.0020	U	0.0020	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
delta-BHC	0.0020	U	0.0020	0.00042	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Dieldrin	0.0020	U	0.0020	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endrin	0.0069	U	0.0069	0.00098	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00064	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:30*	*1*
DCB Decachlorobiphenyl	*75*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:30*	*1*
Tetrachloro-m-xylene	*97*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:30*	*1*
Tetrachloro-m-xylene	*91*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*
DCB Decachlorobiphenyl	*98*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*
Tetrachloro-m-xylene	*100*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*
Tetrachloro-m-xylene	*93*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2810**		18.9	5.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Antimony	0.94	U	0.94	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Arsenic	**0.61**	**J**	0.94	0.097	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Barium	**23.4**		1.9	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Beryllium	**0.23**	**J**	0.38	0.054	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Cadmium	**0.11**	**J**	0.94	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Calcium	**21600**		94.4	16.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Chromium	**8.3**		1.9	0.86	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Cobalt	**2.9**		1.9	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Copper	**9.5**		1.9	0.35	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Iron	**6500**		56.6	19.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Lead	**4.0**		0.57	0.19	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Magnesium	**12100**		94.4	9.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Manganese	**168**		3.8	0.38	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Nickel	**6.7**		1.9	0.44	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Potassium	**522**		94.4	15.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Selenium	**0.17**	**J**	1.2	0.12	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Silver	0.38	U	0.38	0.084	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Sodium	**201**		94.4	43.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Thallium	**0.069**	**J**	0.38	0.039	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1

Client Sample ID: SB-02_31-33_20221003

Lab Sample ID: 460-266752-2
Date Collected: 10/03/22 09:15
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	9.8		1.9	0.19	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Zinc	15.2		7.6	2.9	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.017	0.0082	mg/Kg	☼	10/05/22 00:06	10/05/22 04:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	2.8		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	97.2		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-03_0-2_20221003

Lab Sample ID: 460-266752-3
Date Collected: 10/03/22 15:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.00023	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.00023	0.000048	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00023	U	0.00023	0.000068	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1,2-Trichloroethane	0.00023	U	0.00023	0.000040	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1-Dichloroethane	0.00023	U	0.00023	0.000046	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1-Dichloroethene	0.00023	U	0.00023	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2,3-Trichlorobenzene	0.00023	U	0.00023	0.000041	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2,4-Trichlorobenzene	0.00023	U	0.00023	0.000081	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2,4-Trimethylbenzene	0.00023	U	0.00023	0.000055	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dibromo-3-Chloropropane	0.00023	U	0.00023	0.00010	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dichlorobenzene	0.00023	U	0.00023	0.000081	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dichloroethane	0.00023	U	0.00023	0.000067	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dichloropropane	0.00023	U	0.00023	0.000095	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,3,5-Trimethylbenzene	0.00023	U	0.00023	0.000071	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,3-Dichlorobenzene	0.00023	U	0.00023	0.000082	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,4-Dichlorobenzene	0.00023	U	0.00023	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
2-Butanone (MEK)	0.0011	U	0.0011	0.000083	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
2-Hexanone	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
4-Methyl-2-pentanone (MIBK)	0.0011	U	0.0011	0.00035	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Acetone	0.0014	U	0.0014	0.0013	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Benzene	0.00023	U	0.00023	0.000058	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Bromoform	0.00023	U	0.00023	0.000096	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Bromomethane	0.00045	U	0.00045	0.00023	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Carbon disulfide	0.00023	U	0.00023	0.000060	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Carbon tetrachloride	0.00023	U	0.00023	0.000087	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chlorobenzene	0.00023	U	0.00023	0.000040	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chlorobromomethane	0.00023	U	0.00023	0.000063	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chlorodibromomethane	0.00023	U	0.00023	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chloroethane	0.00023	U	0.00023	0.00012	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chloroform	0.00023	U	0.00023	0.00022	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chloromethane	0.00023	U	0.00023	0.000098	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1

Client Sample ID: SB-03_0-2_20221003
Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.00023	U	0.00023	0.000081	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
cis-1,3-Dichloropropene	0.00023	U	0.00023	0.000062	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Cyclohexane	0.00023	U	0.00023	0.000050	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Dichlorobromomethane	0.00023	U	0.00023	0.000058	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Dichlorodifluoromethane	0.00023	U	0.00023	0.000076	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Ethylbenzene	0.00023	U	0.00023	0.000045	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Ethylene Dibromide	0.00023	U	0.00023	0.000041	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Isopropylbenzene	0.00023	U	0.00023	0.000064	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methyl acetate	0.0011	U	0.0011	0.00097	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methyl tert-butyl ether	0.00023	U	0.00023	0.00012	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methylcyclohexane	0.00023	U	0.00023	0.00011	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methylene Chloride	0.00045	U	0.00045	0.00026	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
m-Xylene & p-Xylene	0.00023	U	0.00023	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
n-Butylbenzene	0.00023	U	0.00023	0.000066	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
N-Propylbenzene	0.00023	U	0.00023	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
o-Xylene	0.00023	U	0.00023	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
sec-Butylbenzene	0.00023	U	0.00023	0.000065	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Styrene	0.00023	U	0.00023	0.000063	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
tert-Butylbenzene	0.00023	U	0.00023	0.000062	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Tetrachloroethene	0.00023	U	0.00023	0.000069	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Toluene	0.00023	U	0.00023	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
trans-1,2-Dichloroethene	0.00023	U	0.00023	0.000055	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
trans-1,3-Dichloropropene	0.00023	U	0.00023	0.000060	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Trichloroethene	0.00023	U	0.00023	0.000072	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Trichlorofluoromethane	0.00023	U	0.00023	0.000091	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Vinyl chloride	0.00023	U	0.00023	0.00012	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Xylenes, Total	0.00045	U	0.00045	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 145*	*10/04/22 13:28*	*10/05/22 18:05*	*1*
4-Bromofluorobenzene	*104*		*75 - 139*	*10/04/22 13:28*	*10/05/22 18:05*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*10/04/22 13:28*	*10/05/22 18:05*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*	*10/04/22 13:28*	*10/05/22 18:05*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
1,2,4,5-Tetrachlorobenzene	0.39	U	0.39	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
1,4-Dioxane	0.039	U	0.039	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	0.0070	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,3,4,6-Tetrachlorophenol	0.39	U	0.39	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.050	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dichlorophenol	0.16	U	0.16	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dimethylphenol	0.39	U	0.39	0.046	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dinitrotoluene	0.079	U	0.079	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,6-Dinitrotoluene	0.079	U	0.079	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Chloronaphthalene	0.39	U	0.39	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Chlorophenol	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1

Client Sample ID: SB-03_0-2_20221003
Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Methylphenol	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Nitroaniline	0.39	U	0.39	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Nitrophenol	0.39	U	0.39	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
3 & 4 Methylphenol	0.39	U	0.39	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.059	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
3-Nitroaniline	0.39	U	0.39	0.092	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.16	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Bromophenyl phenyl ether	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Chloroaniline	0.39	U	0.39	0.069	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Chlorophenyl phenyl ether	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Methylphenol	0.39	U	0.39	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Nitroaniline	0.39	U	0.39	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Nitrophenol	0.79	U	0.79	0.063	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Acenaphthene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Acenaphthylene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Acetophenone	0.39	U	0.39	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Anthracene	0.39	U	0.39	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Atrazine	0.16	U	0.16	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzaldehyde	0.39	U	0.39	0.064	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[a]anthracene	**0.049**		0.039	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[a]pyrene	**0.041**		0.039	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[b]fluoranthene	**0.057**		0.039	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[g,h,i]perylene	**0.024**	**J**	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[k]fluoranthene	**0.022**	**J**	0.039	0.0076	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Bis(2-chloroethoxy)methane	0.39	U	0.39	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Bis(2-chloroethyl)ether	0.039	U	0.039	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Bis(2-ethylhexyl) phthalate	0.39	U	0.39	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Butyl benzyl phthalate	0.39	U	0.39	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Caprolactam	0.39	U	0.39	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Carbazole	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Chrysene	**0.046**	**J**	0.39	0.0066	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Dibenzofuran	0.39	U	0.39	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Diethyl phthalate	0.39	U	0.39	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Dimethyl phthalate	0.39	U	0.39	0.088	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Di-n-butyl phthalate	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Di-n-octyl phthalate	0.39	U	0.39	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Fluoranthene	**0.076**	**J**	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Fluorene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachlorobenzene	0.039	U	0.039	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachlorobutadiene	0.079	U	0.079	0.0083	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachlorocyclopentadiene	0.39	U	0.39	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachloroethane	0.039	U	0.039	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Indeno[1,2,3-cd]pyrene	**0.028**	**J**	0.039	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Isophorone	0.16	U	0.16	0.11	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Naphthalene	0.39	U	0.39	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Nitrobenzene	0.039	U	0.039	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1

Client Sample ID: SB-03_0-2_20221003

Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3

Matrix: Solid
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.039	U	0.039	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
N-Nitrosodiphenylamine	0.39	U	0.39	0.032	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Pentachlorophenol	0.31	U	0.31	0.080	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Phenanthrene	**0.035**	**J**	0.39	0.0068	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Phenol	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Pyrene	**0.075**	**J**	0.39	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	67		10 - 123	10/04/22 18:31	10/05/22 06:54	1
2-Fluorobiphenyl	83		22 - 122	10/04/22 18:31	10/05/22 06:54	1
2-Fluorophenol (Surr)	72		18 - 123	10/04/22 18:31	10/05/22 06:54	1
Nitrobenzene-d5 (Surr)	73		16 - 125	10/04/22 18:31	10/05/22 06:54	1
Phenol-d5 (Surr)	69		23 - 120	10/04/22 18:31	10/05/22 06:54	1
Terphenyl-d14 (Surr)	85		25 - 126	10/04/22 18:31	10/05/22 06:54	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0079	U	0.0079	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
4,4'-DDE	0.0079	U	0.0079	0.00093	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
4,4'-DDT	0.0079	U	0.0079	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Aldrin	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
alpha-BHC	0.0023	U	0.0023	0.00080	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
beta-BHC	0.0023	U	0.0023	0.00088	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Chlordane (technical)	0.079	U	0.079	0.019	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
cis-Chlordane	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
delta-BHC	0.0023	U	0.0023	0.00048	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Dieldrin	0.0023	U	0.0023	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endosulfan I	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endosulfan II	0.0079	U	0.0079	0.0020	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endosulfan sulfate	0.0079	U	0.0079	0.00099	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endrin	0.0079	U	0.0079	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endrin aldehyde	0.0079	U	0.0079	0.0019	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endrin ketone	0.0079	U	0.0079	0.0015	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00073	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Heptachlor	0.0079	U	0.0079	0.00093	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Heptachlor epoxide	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Methoxychlor	0.0079	U	0.0079	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Toxaphene	0.079	U	0.079	0.028	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	79		43 - 150	10/04/22 16:51	10/05/22 07:43	1
DCB Decachlorobiphenyl	69		43 - 150	10/04/22 16:51	10/05/22 07:43	1
Tetrachloro-m-xylene	89		26 - 137	10/04/22 16:51	10/05/22 07:43	1
Tetrachloro-m-xylene	84		26 - 137	10/04/22 16:51	10/05/22 07:43	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1221	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1232	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1

Client Sample ID: SB-03_0-2_20221003
Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1248	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1254	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1260	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor-1262	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1268	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Polychlorinated biphenyls, Total	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*
DCB Decachlorobiphenyl	*94*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*
Tetrachloro-m-xylene	*91*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6790**		22.2	6.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Antimony	**0.16**	**J**	1.1	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Arsenic	**2.5**		1.1	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Barium	**62.6**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Beryllium	**0.36**	**J**	0.44	0.063	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Cadmium	**0.21**	**J**	1.1	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Calcium	**32300**		111	19.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Chromium	**16.4**		2.2	1.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Cobalt	**5.0**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Copper	**23.3**		2.2	0.41	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Iron	**11300**		66.6	22.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Lead	**81.7**		0.67	0.22	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Magnesium	**5740**		111	11.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Manganese	**216**		4.4	0.45	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Nickel	**13.5**		2.2	0.52	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Potassium	**1360**		111	18.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Selenium	**0.18**	**J**	1.4	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Silver	0.44	U	0.44	0.099	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Sodium	**309**		111	50.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Thallium	**0.093**	**J**	0.44	0.045	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Vanadium	**20.8**		2.2	0.23	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Zinc	**65.1**		8.9	3.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.018	0.0086	mg/Kg	☼	10/05/22 00:06	10/05/22 04:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.98	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**14.9**		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	**85.1**		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-03_31-33_20221003

Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4

Matrix: Solid
Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000046	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000042	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000041	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000091	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000083	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000062	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
2-Butanone (MEK)	0.00099	U	0.00099	0.000073	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
2-Hexanone	0.00099	U	0.00099	0.00034	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
4-Methyl-2-pentanone (MIBK)	0.00099	U	0.00099	0.00031	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Acetone	0.014		0.0012	0.0011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Benzene	0.00020	U	0.00020	0.000051	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Bromoform	0.00020	U	0.00020	0.000084	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Bromomethane	0.00039	U	0.00039	0.00020	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Carbon disulfide	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Carbon tetrachloride	0.00020	U *	0.00020	0.000076	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chlorobenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chlorobromomethane	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chlorodibromomethane	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chloroethane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chloroform	0.00020	U	0.00020	0.00019	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chloromethane	0.00020	U	0.00020	0.000086	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Cyclohexane	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Dichlorobromomethane	0.00020	U	0.00020	0.000051	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000067	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Ethylbenzene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Ethylene Dibromide	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Isopropylbenzene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methyl acetate	0.00099	U	0.00099	0.00085	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methylcyclohexane	0.00020	U	0.00020	0.000098	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methylene Chloride	0.00039	U	0.00039	0.00023	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000034	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
n-Butylbenzene	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
N-Propylbenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
o-Xylene	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
sec-Butylbenzene	0.00020	U *	0.00020	0.000057	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Styrene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1

Client Sample ID: SB-03_31-33_20221003
Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4
Matrix: Solid
Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00020	U *	0.00020	0.000054	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Tetrachloroethene	0.00020	U	0.00020	0.000060	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Toluene	0.00020	U	0.00020	0.000046	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Trichloroethene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000080	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Xylenes, Total	0.00039	U	0.00039	0.000034	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 145*	*10/04/22 13:29*	*10/06/22 01:11*	*1*
4-Bromofluorobenzene	*93*		*75 - 139*	*10/04/22 13:29*	*10/06/22 01:11*	*1*
Dibromofluoromethane (Surr)	*87*		*73 - 139*	*10/04/22 13:29*	*10/06/22 01:11*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/04/22 13:29*	*10/06/22 01:11*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
1,2,4,5-Tetrachlorobenzene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
1,4-Dioxane	0.035	U	0.035	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,2'-oxybis[1-chloropropane]	0.35	U	0.35	0.0063	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,3,4,6-Tetrachlorophenol	0.35	U	0.35	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.036	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dimethylphenol	0.35	U	0.35	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dinitrophenol	0.28	U	0.28	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dinitrotoluene	0.071	U	0.071	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,6-Dinitrotoluene	0.071	U	0.071	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Chloronaphthalene	0.35	U	0.35	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Chlorophenol	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Methylnaphthalene	0.35	U	0.35	0.0098	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Methylphenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Nitroaniline	0.35	U	0.35	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Nitrophenol	0.35	U	0.35	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
3 & 4 Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
3-Nitroaniline	0.35	U	0.35	0.083	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4,6-Dinitro-2-methylphenol	0.28	U	0.28	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Bromophenyl phenyl ether	0.35	U	0.35	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Chloroaniline	0.35	U	0.35	0.062	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Chlorophenyl phenyl ether	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Nitroaniline	0.35	U	0.35	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Nitrophenol	0.71	U	0.71	0.057	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Acenaphthene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Acenaphthylene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Acetophenone	0.35	U	0.35	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1

Client Sample ID: SB-03_31-33_20221003
Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4
Matrix: Solid
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Atrazine	0.14	U	0.14	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzaldehyde	0.35	U	0.35	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[a]anthracene	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[a]pyrene	0.035	U	0.035	0.0093	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[b]fluoranthene	0.035	U	0.035	0.0090	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[g,h,i]perylene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[k]fluoranthene	0.035	U	0.035	0.0069	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Bis(2-chloroethoxy)methane	0.35	U	0.35	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Bis(2-chloroethyl)ether	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Bis(2-ethylhexyl) phthalate	0.35	U	0.35	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Butyl benzyl phthalate	0.35	U	0.35	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Caprolactam	0.35	U	0.35	0.054	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Carbazole	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Chrysene	0.35	U	0.35	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Dibenzofuran	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Diethyl phthalate	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Dimethyl phthalate	0.35	U	0.35	0.079	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Di-n-butyl phthalate	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Di-n-octyl phthalate	0.35	U	0.35	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Fluoranthene	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Fluorene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachlorobenzene	0.035	U	0.035	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachlorobutadiene	0.071	U	0.071	0.0074	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachlorocyclopentadiene	0.35	U	0.35	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachloroethane	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Indeno[1,2,3-cd]pyrene	0.035	U	0.035	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Isophorone	0.14	U	0.14	0.10	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Naphthalene	0.35	U	0.35	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Nitrobenzene	0.035	U	0.035	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
N-Nitrosodi-n-propylamine	0.035	U	0.035	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
N-Nitrosodiphenylamine	0.35	U	0.35	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Pentachlorophenol	0.28	U	0.28	0.072	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Phenanthrene	0.35	U	0.35	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Phenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Pyrene	0.35	U	0.35	0.0087	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*10 - 123*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
2-Fluorobiphenyl	*80*		*22 - 122*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 123*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
Nitrobenzene-d5 (Surr)	*70*		*16 - 125*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
Phenol-d5 (Surr)	*69*		*23 - 120*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
Terphenyl-d14 (Surr)	*82*		*25 - 126*	*10/04/22 18:31*	*10/05/22 05:22*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0071	U	0.0071	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
4,4'-DDE	0.0071	U	0.0071	0.00083	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1

Client Sample ID: SB-03_31-33_20221003

Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4

Matrix: Solid
Percent Solids: 94.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0071	U	0.0071	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Aldrin	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
alpha-BHC	0.0021	U	0.0021	0.00072	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
beta-BHC	0.0021	U	0.0021	0.00079	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Chlordane (technical)	0.071	U	0.071	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
cis-Chlordane	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
delta-BHC	0.0021	U	0.0021	0.00043	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Dieldrin	0.0021	U	0.0021	0.00092	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endosulfan I	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endosulfan II	0.0071	U	0.0071	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endosulfan sulfate	0.0071	U	0.0071	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endrin	0.0071	U	0.0071	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endrin aldehyde	0.0071	U	0.0071	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endrin ketone	0.0071	U	0.0071	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00065	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Heptachlor	0.0071	U	0.0071	0.00083	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Heptachlor epoxide	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Methoxychlor	0.0071	U	0.0071	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Toxaphene	0.071	U	0.071	0.026	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:55*	*1*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:55*	*1*
Tetrachloro-m-xylene	*91*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:55*	*1*
Tetrachloro-m-xylene	*85*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:55*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1221	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1232	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1242	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1248	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1254	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1260	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor-1262	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1268	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Polychlorinated biphenyls, Total	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*
Tetrachloro-m-xylene	*85*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3030**		20.0	5.5	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Arsenic	**0.86**	**J**	1.0	0.10	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1

Client Sample ID: SB-03_31-33_20221003

Lab Sample ID: 460-266752-4

Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 94.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	19.1		2.0	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Beryllium	0.16	J	0.40	0.057	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Calcium	1560		99.8	17.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Chromium	10.1		2.0	0.91	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Cobalt	2.6		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Copper	8.2		2.0	0.37	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Iron	6720		59.9	20.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Lead	2.7		0.60	0.20	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Magnesium	1940		99.8	10.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Manganese	177		4.0	0.40	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Nickel	6.4		2.0	0.47	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Potassium	510		99.8	16.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Selenium	1.2	U	1.2	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Silver	0.40	U	0.40	0.089	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Sodium	161		99.8	45.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Thallium	0.40	U	0.40	0.041	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Vanadium	8.5		2.0	0.21	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Zinc	14.4		8.0	3.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.017	0.0081	mg/Kg	☼	10/05/22 00:06	10/05/22 04:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.92	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	5.5		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	94.5		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-04_0-2_20221003

Lab Sample ID: 460-266752-5

Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00021	U	0.00021	0.000050	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00021	0.000046	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00021	U	0.00021	0.000064	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1,2-Trichloroethane	0.00021	U	0.00021	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1-Dichloroethane	0.00021	U	0.00021	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1-Dichloroethene	0.00021	U	0.00021	0.000048	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2,3-Trichlorobenzene	0.00021	U	0.00021	0.000039	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2,4-Trichlorobenzene	0.00021	U	0.00021	0.000077	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2,4-Trimethylbenzene	0.00021	U	0.00021	0.000053	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dibromo-3-Chloropropane	0.00021	U	0.00021	0.000098	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dichlorobenzene	0.00021	U	0.00021	0.000077	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dichloroethane	0.00021	U	0.00021	0.000063	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dichloropropane	0.00021	U	0.00021	0.000090	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,3,5-Trimethylbenzene	0.00021	U	0.00021	0.000067	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1

Client Sample ID: SB-04_0-2_20221003
Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00021	U	0.00021	0.000078	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,4-Dichlorobenzene	0.00021	U	0.00021	0.000048	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
2-Butanone (MEK)	0.0011	U	0.0011	0.000079	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
2-Hexanone	0.0011	U	0.0011	0.00037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
4-Methyl-2-pentanone (MIBK)	0.0011	U	0.0011	0.00033	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Acetone	0.0013	U	0.0013	0.0012	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Benzene	0.00021	U	0.00021	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Bromoform	0.00021	U	0.00021	0.000091	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Bromomethane	0.00043	U	0.00043	0.00021	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Carbon disulfide	0.00021	U	0.00021	0.000057	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Carbon tetrachloride	0.00021	U *	0.00021	0.000083	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chlorobenzene	0.00021	U	0.00021	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chlorobromomethane	0.00021	U	0.00021	0.000060	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chlorodibromomethane	0.00021	U	0.00021	0.000041	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chloroethane	0.00021	U	0.00021	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chloroform	0.00021	U	0.00021	0.00021	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chloromethane	0.00021	U	0.00021	0.000093	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
cis-1,2-Dichloroethene	0.00021	U	0.00021	0.000077	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
cis-1,3-Dichloropropene	0.00021	U	0.00021	0.000058	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Cyclohexane	0.00021	U	0.00021	0.000047	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Dichlorobromomethane	0.00021	U	0.00021	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Dichlorodifluoromethane	0.00021	U	0.00021	0.000072	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Ethylbenzene	0.00021	U	0.00021	0.000043	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Ethylene Dibromide	0.00021	U	0.00021	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Isopropylbenzene	0.00021	U	0.00021	0.000061	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methyl acetate	0.0011	U	0.0011	0.00092	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methyl tert-butyl ether	0.00021	U	0.00021	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methylcyclohexane	0.00021	U	0.00021	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methylene Chloride	0.00043	U	0.00043	0.00024	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
m-Xylene & p-Xylene	0.00021	U	0.00021	0.000037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
n-Butylbenzene	0.00021	U	0.00021	0.000063	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
N-Propylbenzene	0.00021	U	0.00021	0.000037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
o-Xylene	0.00021	U	0.00021	0.000041	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
sec-Butylbenzene	0.00021	U *	0.00021	0.000062	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Styrene	0.00021	U	0.00021	0.000059	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
tert-Butylbenzene	0.00021	U *	0.00021	0.000059	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Tetrachloroethene	0.00021	U	0.00021	0.000065	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Toluene	0.00021	U	0.00021	0.000050	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
trans-1,2-Dichloroethene	0.00021	U	0.00021	0.000053	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
trans-1,3-Dichloropropene	0.00021	U	0.00021	0.000057	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Trichloroethene	0.00021	U	0.00021	0.000069	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Trichlorofluoromethane	0.00021	U	0.00021	0.000087	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Vinyl chloride	0.00021	U	0.00021	0.00012	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Xylenes, Total	0.00043	U	0.00043	0.000037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 145*	*10/04/22 13:29*	*10/06/22 01:35*	*1*
4-Bromofluorobenzene	*111*		*75 - 139*	*10/04/22 13:29*	*10/06/22 01:35*	*1*
Dibromofluoromethane (Surr)	*106*		*73 - 139*	*10/04/22 13:29*	*10/06/22 01:35*	*1*
Toluene-d8 (Surr)	*118*		*80 - 120*	*10/04/22 13:29*	*10/06/22 01:35*	*1*

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-04_0-2_20221003
Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.047	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dichlorophenol	0.15	U	0.15	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dimethylphenol	0.37	U	0.37	0.044	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dinitrotoluene	0.075	U	0.075	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,6-Dinitrotoluene	0.075	U	0.075	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Chlorophenol	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Methylnaphthalene	0.37	U	0.37	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Methylphenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Nitroaniline	0.37	U	0.37	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Nitrophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
3 & 4 Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
3-Nitroaniline	0.37	U	0.37	0.087	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.15	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Chloroaniline	0.37	U	0.37	0.065	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Nitroaniline	0.37	U	0.37	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Nitrophenol	0.75	U	0.75	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Acenaphthene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Acenaphthylene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Acetophenone	0.37	U	0.37	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Anthracene	**0.025**	**J**	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Atrazine	0.15	U	0.15	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzaldehyde	0.37	U	0.37	0.061	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[a]anthracene	**0.092**		0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[a]pyrene	**0.080**		0.037	0.0098	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[b]fluoranthene	**0.11**		0.037	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[g,h,i]perylene	**0.042**	**J**	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[k]fluoranthene	**0.036**	**J**	0.037	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Bis(2-ethylhexyl) phthalate	**0.080**	**J**	0.37	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Caprolactam	0.37	U	0.37	0.057	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Carbazole	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Chrysene	**0.088**	**J**	0.37	0.0062	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Dibenzofuran	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1

Client Sample ID: SB-04_0-2_20221003
Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Dimethyl phthalate	0.37	U	0.37	0.084	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Di-n-butyl phthalate	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Fluoranthene	**0.17**	**J**	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Fluorene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachlorobenzene	0.037	U	0.037	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachlorobutadiene	0.075	U	0.075	0.0078	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.032	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachloroethane	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Indeno[1,2,3-cd]pyrene	**0.048**		0.037	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Isophorone	0.15	U	0.15	0.11	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Naphthalene	0.37	U	0.37	0.0064	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Nitrobenzene	0.037	U	0.037	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Phenanthrene	**0.10**	**J**	0.37	0.0065	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Phenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Pyrene	**0.17**	**J**	0.37	0.0092	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*10 - 123*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
2-Fluorobiphenyl	*81*		*22 - 122*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 123*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
Nitrobenzene-d5 (Surr)	*71*		*16 - 125*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
Phenol-d5 (Surr)	*69*		*23 - 120*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
Terphenyl-d14 (Surr)	*84*		*25 - 126*	*10/04/22 18:31*	*10/05/22 07:17*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0075	U	0.0075	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
4,4'-DDE	0.0075	U	0.0075	0.00088	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
4,4'-DDT	0.0075	U	0.0075	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Aldrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
alpha-BHC	0.0022	U	0.0022	0.00076	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
beta-BHC	0.0022	U	0.0022	0.00084	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Chlordane (technical)	0.075	U	0.075	0.018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
cis-Chlordane	0.0075	U	0.0075	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
delta-BHC	0.0022	U	0.0022	0.00046	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Dieldrin	0.0022	U	0.0022	0.00097	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endosulfan I	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endosulfan II	0.0075	U	0.0075	0.0019	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endosulfan sulfate	0.0075	U	0.0075	0.00094	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endrin aldehyde	0.0075	U	0.0075	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endrin ketone	0.0075	U	0.0075	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00069	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Heptachlor	0.0075	U	0.0075	0.00088	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Heptachlor epoxide	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1

Client Sample ID: SB-04_0-2_20221003

Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5

Matrix: Solid
Percent Solids: 89.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0075	U	0.0075	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Toxaphene	0.075	U	0.075	0.027	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:07*	*1*
DCB Decachlorobiphenyl	*64*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:07*	*1*
Tetrachloro-m-xylene	*83*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:07*	*1*
Tetrachloro-m-xylene	*74*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:07*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1221	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1232	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1242	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1248	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1254	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1260	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor-1262	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1268	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Polychlorinated biphenyls, Total	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*
Tetrachloro-m-xylene	*82*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9180**		21.7	6.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Antimony	**0.49**	**J**	1.1	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Arsenic	**4.0**		1.1	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Barium	**78.8**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Beryllium	**0.63**		0.43	0.062	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Cadmium	**0.43**	**J**	1.1	0.12	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Calcium	**9950**		109	19.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Chromium	**19.1**		2.2	0.99	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Cobalt	**9.6**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Copper	**34.8**		2.2	0.40	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Iron	**20700**		65.1	21.9	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Lead	**80.0**		0.65	0.22	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Magnesium	**4900**		109	11.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Manganese	**689**		4.3	0.44	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Nickel	**20.7**		2.2	0.51	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Potassium	**2720**		109	17.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Selenium	**0.35**	**J**	1.4	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Silver	0.43	U	0.43	0.097	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Sodium	**301**		109	49.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Thallium	**0.21**	**J**	0.43	0.045	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1

Client Sample ID: SB-04_0-2_20221003

Lab Sample ID: 460-266752-5
Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 89.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**31.6**		2.2	0.22	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Zinc	**107**		8.7	3.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.59**		0.017	0.0080	mg/Kg	☼	10/05/22 00:06	10/05/22 04:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.94	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**10.6**		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	**89.4**		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-04_32-34_20221003

Lab Sample ID: 460-266752-6
Date Collected: 10/03/22 13:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000042	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000040	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000048	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000090	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000083	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000061	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
2-Butanone (MEK)	0.00098	U	0.00098	0.000072	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
2-Hexanone	0.00098	U	0.00098	0.00033	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
4-Methyl-2-pentanone (MIBK)	0.00098	U	0.00098	0.00030	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Acetone	0.0012	U	0.0012	0.0011	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Benzene	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Bromoform	0.00020	U	0.00020	0.000083	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Bromomethane	0.00039	U	0.00039	0.00020	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Carbon disulfide	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Carbon tetrachloride	0.00020	U *	0.00020	0.000075	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chlorobenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chlorobromomethane	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chlorodibromomethane	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chloroethane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chloroform	0.00020	U	0.00020	0.00019	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chloromethane	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-04_32-34_20221003
Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6
Matrix: Solid
Percent Solids: 97.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000053	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Cyclohexane	0.00020	U	0.00020	0.000043	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Dichlorobromomethane	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000066	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Ethylbenzene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Ethylene Dibromide	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Isopropylbenzene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methyl acetate	0.00098	U	0.00098	0.00084	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methylcyclohexane	0.00020	U	0.00020	0.000097	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methylene Chloride	0.00039	U	0.00039	0.00022	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000034	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
n-Butylbenzene	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
N-Propylbenzene	0.00020	U	0.00020	0.000034	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
o-Xylene	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
sec-Butylbenzene	0.00020	U *	0.00020	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Styrene	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
tert-Butylbenzene	0.00020	U *	0.00020	0.000054	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Tetrachloroethene	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Toluene	0.00020	U	0.00020	0.000046	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000048	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Trichloroethene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000079	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Xylenes, Total	0.00039	U	0.00039	0.000034	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 145*	*10/04/22 13:30*	*10/06/22 01:59*	*1*
4-Bromofluorobenzene	*102*		*75 - 139*	*10/04/22 13:30*	*10/06/22 01:59*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*	*10/04/22 13:30*	*10/06/22 01:59*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*	*10/04/22 13:30*	*10/06/22 01:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0062	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1

Client Sample ID: SB-04_32-34_20221003
Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6
Matrix: Solid
Percent Solids: 97.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Nitrophenol	0.69	U	0.69	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Acenaphthene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[a]pyrene	0.034	U	0.034	0.0091	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Chrysene	0.34	U	0.34	0.0058	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Fluorene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachlorobutadiene	0.069	U	0.069	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1

Client Sample ID: SB-04_32-34_20221003

Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6

Matrix: Solid
Percent Solids: 97.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Pentachlorophenol	0.27	U	0.27	0.070	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Phenanthrene	0.34	U	0.34	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Phenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Pyrene	0.34	U	0.34	0.0085	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	67		10 - 123	10/04/22 18:31	10/05/22 07:40	1
2-Fluorobiphenyl	81		22 - 122	10/04/22 18:31	10/05/22 07:40	1
2-Fluorophenol (Surr)	72		18 - 123	10/04/22 18:31	10/05/22 07:40	1
Nitrobenzene-d5 (Surr)	70		16 - 125	10/04/22 18:31	10/05/22 07:40	1
Phenol-d5 (Surr)	68		23 - 120	10/04/22 18:31	10/05/22 07:40	1
Terphenyl-d14 (Surr)	85		25 - 126	10/04/22 18:31	10/05/22 07:40	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
beta-BHC	0.0021	U	0.0021	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Dieldrin	0.0021	U	0.0021	0.00090	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	82		43 - 150	10/04/22 16:51	10/05/22 08:19	1
DCB Decachlorobiphenyl	78		43 - 150	10/04/22 16:51	10/05/22 08:19	1
Tetrachloro-m-xylene	95		26 - 137	10/04/22 16:51	10/05/22 08:19	1
Tetrachloro-m-xylene	91		26 - 137	10/04/22 16:51	10/05/22 08:19	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1

Client Sample ID: SB-04_32-34_20221003
Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6
Matrix: Solid
Percent Solids: 97.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*
DCB Decachlorobiphenyl	*88*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*
Tetrachloro-m-xylene	*84*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*
Tetrachloro-m-xylene	*81*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4170**		20.2	5.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Arsenic	**1.3**		1.0	0.10	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Barium	**35.4**		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Beryllium	**0.26**	**J**	0.40	0.058	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Calcium	**1230**		101	17.9	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Chromium	**19.3**		2.0	0.92	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Cobalt	**4.6**		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Copper	**18.3**		2.0	0.37	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Iron	**10400**		60.7	20.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Lead	**6.1**		0.61	0.20	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Magnesium	**2050**		101	10.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Manganese	**268**		4.0	0.41	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Nickel	**10.2**		2.0	0.48	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Potassium	**826**		101	16.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Selenium	1.3	U	1.3	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Silver	0.40	U	0.40	0.090	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Sodium	**199**		101	46.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Thallium	**0.070**	**J**	0.40	0.041	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Vanadium	**15.3**		2.0	0.21	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Zinc	**27.3**		8.1	3.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.0083	mg/Kg	☼	10/05/22 00:06	10/05/22 04:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.90	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**3.0**		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	**97.0**		1.0	1.0	%			10/05/22 09:25	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-07_0-2_20221003
Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7
Matrix: Solid
Percent Solids: 88.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00022	U	0.00022	0.000050	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.00022	0.000046	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00022	U	0.00022	0.000065	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1,2-Trichloroethane	0.00022	U	0.00022	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1-Dichloroethane	0.00022	U	0.00022	0.000045	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1-Dichloroethene	0.00022	U	0.00022	0.000049	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2,3-Trichlorobenzene	0.00022	U	0.00022	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2,4-Trichlorobenzene	0.00022	U	0.00022	0.000078	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2,4-Trimethylbenzene	0.00022	U	0.00022	0.000053	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dibromo-3-Chloropropane	0.00022	U	0.00022	0.00010	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dichlorobenzene	0.00022	U	0.00022	0.000078	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dichloroethane	0.00022	U	0.00022	0.000064	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dichloropropane	0.00022	U	0.00022	0.000092	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,3,5-Trimethylbenzene	0.00022	U	0.00022	0.000068	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,3-Dichlorobenzene	0.00022	U	0.00022	0.000079	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,4-Dichlorobenzene	0.00022	U	0.00022	0.000049	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
2-Butanone (MEK)	0.0011	U	0.0011	0.000080	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
2-Hexanone	0.0011	U	0.0011	0.00037	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
4-Methyl-2-pentanone (MIBK)	0.0011	U	0.0011	0.00034	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Acetone	**0.010**		0.0013	0.0012	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Benzene	0.00022	U	0.00022	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Bromoform	0.00022	U	0.00022	0.000092	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Bromomethane	0.00043	U	0.00043	0.00022	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Carbon disulfide	0.00022	U	0.00022	0.000058	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Carbon tetrachloride	0.00022	U *	0.00022	0.000084	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chlorobenzene	0.00022	U	0.00022	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chlorobromomethane	0.00022	U	0.00022	0.000061	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chlorodibromomethane	0.00022	U	0.00022	0.000042	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chloroethane	0.00022	U	0.00022	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chloroform	0.00022	U	0.00022	0.00021	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chloromethane	0.00022	U	0.00022	0.000094	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
cis-1,2-Dichloroethene	0.00022	U	0.00022	0.000078	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
cis-1,3-Dichloropropene	0.00022	U	0.00022	0.000059	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Cyclohexane	0.00022	U	0.00022	0.000048	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Dichlorobromomethane	0.00022	U	0.00022	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Dichlorodifluoromethane	0.00022	U	0.00022	0.000073	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Ethylbenzene	0.00022	U	0.00022	0.000043	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Ethylene Dibromide	0.00022	U	0.00022	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Isopropylbenzene	0.00022	U	0.00022	0.000062	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methyl acetate	0.0011	U	0.0011	0.00093	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methyl tert-butyl ether	0.00022	U	0.00022	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methylcyclohexane	0.00022	U	0.00022	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methylene Chloride	0.00043	U	0.00043	0.00025	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
m-Xylene & p-Xylene	0.00022	U	0.00022	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
n-Butylbenzene	0.00022	U	0.00022	0.000064	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
N-Propylbenzene	0.00022	U	0.00022	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
o-Xylene	0.00022	U	0.00022	0.000042	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
sec-Butylbenzene	0.00022	U *	0.00022	0.000062	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Styrene	0.00022	U	0.00022	0.000060	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1

Client Sample ID: SB-07_0-2_20221003
Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7
Matrix: Solid
Percent Solids: 88.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00022	U *	0.00022	0.000060	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Tetrachloroethene	**0.00024**		0.00022	0.000066	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Toluene	0.00022	U	0.00022	0.000051	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
trans-1,2-Dichloroethene	0.00022	U	0.00022	0.000053	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
trans-1,3-Dichloropropene	0.00022	U	0.00022	0.000058	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Trichloroethene	0.00022	U	0.00022	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Trichlorofluoromethane	0.00022	U	0.00022	0.000088	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Vinyl chloride	0.00022	U	0.00022	0.00012	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Xylenes, Total	0.00043	U	0.00043	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 145*	*10/04/22 13:30*	*10/06/22 02:24*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*	*10/04/22 13:30*	*10/06/22 02:24*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 139*	*10/04/22 13:30*	*10/06/22 02:24*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/04/22 13:30*	*10/06/22 02:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
1,4-Dioxane	0.037	U	0.037	0.033	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0068	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.048	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dichlorophenol	0.15	U	0.15	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dimethylphenol	0.37	U	0.37	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dinitrotoluene	0.076	U	0.076	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,6-Dinitrotoluene	0.076	U	0.076	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Chlorophenol	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Methylnaphthalene	0.37	U	0.37	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Methylphenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Nitroaniline	0.37	U	0.37	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Nitrophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
3 & 4 Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
3-Nitroaniline	0.37	U	0.37	0.089	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.15	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Chloroaniline	0.37	U	0.37	0.066	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Nitroaniline	0.37	U	0.37	0.043	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Nitrophenol	0.76	U	0.76	0.061	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Acenaphthene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Acenaphthylene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Acetophenone	0.37	U	0.37	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1

Client Sample ID: SB-07_0-2_20221003
Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7
Matrix: Solid
Percent Solids: 88.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Atrazine	0.15	U	0.15	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzaldehyde	0.37	U	0.37	0.062	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[a]anthracene	**0.061**		0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[a]pyrene	**0.056**		0.037	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[b]fluoranthene	**0.083**		0.037	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[g,h,i]perylene	**0.029**	**J**	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[k]fluoranthene	**0.035**	**J**	0.037	0.0073	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Bis(2-ethylhexyl) phthalate	**0.022**	**J**	0.37	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Caprolactam	0.37	U	0.37	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Carbazole	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Chrysene	**0.062**	**J**	0.37	0.0063	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Dibenzofuran	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Diethyl phthalate	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Dimethyl phthalate	0.37	U	0.37	0.085	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Di-n-butyl phthalate	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Fluoranthene	**0.094**	**J**	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Fluorene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachlorobenzene	0.037	U	0.037	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachlorobutadiene	0.076	U	0.076	0.0079	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachloroethane	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Indeno[1,2,3-cd]pyrene	**0.034**	**J**	0.037	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Isophorone	0.15	U	0.15	0.11	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Naphthalene	0.37	U	0.37	0.0064	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Nitrobenzene	0.037	U	0.037	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Phenanthrene	**0.039**	**J**	0.37	0.0066	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Phenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Pyrene	**0.093**	**J**	0.37	0.0093	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 123*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
2-Fluorobiphenyl	*81*		*22 - 122*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 123*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
Nitrobenzene-d5 (Surr)	*71*		*16 - 125*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
Phenol-d5 (Surr)	*67*		*23 - 120*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
Terphenyl-d14 (Surr)	*81*		*25 - 126*	*10/04/22 18:31*	*10/05/22 08:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0076	U	0.0076	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
4,4'-DDE	0.0076	U	0.0076	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1

Client Sample ID: SB-07_0-2_20221003

Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7

Matrix: Solid
Percent Solids: 88.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0076	U	0.0076	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Aldrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
alpha-BHC	0.0023	U	0.0023	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
beta-BHC	0.0023	U	0.0023	0.00085	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Chlordane (technical)	0.076	U	0.076	0.018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
cis-Chlordane	0.0076	U	0.0076	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
delta-BHC	0.0023	U	0.0023	0.00046	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Dieldrin	0.0023	U	0.0023	0.00098	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endosulfan I	0.0076	U	0.0076	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endosulfan II	0.0076	U	0.0076	0.0019	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endosulfan sulfate	0.0076	U	0.0076	0.00095	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endrin aldehyde	0.0076	U	0.0076	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endrin ketone	0.0076	U	0.0076	0.0015	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Heptachlor	0.0076	U	0.0076	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Heptachlor epoxide	0.0076	U	0.0076	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Methoxychlor	0.0076	U	0.0076	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Toxaphene	0.076	U	0.076	0.027	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:32*	*1*
DCB Decachlorobiphenyl	*65*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:32*	*1*
Tetrachloro-m-xylene	*89*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:32*	*1*
Tetrachloro-m-xylene	*81*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:32*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1221	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1232	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1242	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1248	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1254	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1260	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor-1262	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1268	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Polychlorinated biphenyls, Total	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*
DCB Decachlorobiphenyl	*85*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*
Tetrachloro-m-xylene	*85*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*
Tetrachloro-m-xylene	*81*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5980**		21.0	5.8	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Antimony	**0.20**	**J**	1.0	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Arsenic	**3.9**		1.0	0.11	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1

Client Sample ID: SB-07_0-2_20221003

Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 88.3

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	66.6		2.1	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Beryllium	0.31	J	0.42	0.060	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Cadmium	0.33	J	1.0	0.12	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Calcium	27200		105	18.6	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Chromium	15.1		2.1	0.95	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Cobalt	5.4		2.1	0.16	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Copper	39.8		2.1	0.39	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Iron	13300		62.9	21.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Lead	131		0.63	0.21	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Magnesium	11900		105	10.7	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Manganese	274		4.2	0.42	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Nickel	16.8		2.1	0.49	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Potassium	1220		105	17.0	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Selenium	0.19	J	1.3	0.13	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Silver	0.11	J	0.42	0.093	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Sodium	402		105	47.9	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Thallium	0.11	J	0.42	0.043	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Vanadium	32.6		2.1	0.22	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Zinc	109		8.4	3.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0082	mg/Kg	☼	10/05/22 00:21	10/05/22 05:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.98	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	11.7		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	88.3		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000043	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000061	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000042	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000093	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000073	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000060	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000074	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
2-Butanone (MEK)	0.0010	U	0.0010	0.000074	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
2-Hexanone	0.0010	U	0.0010	0.00034	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
4-Methyl-2-pentanone (MIBK)	0.0010	U	0.0010	0.00031	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Acetone	**0.031**		0.0012	0.0012	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Benzene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Bromoform	0.00020	U *	0.00020	0.000086	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Bromomethane	0.00040	U	0.00040	0.00020	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Carbon disulfide	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Carbon tetrachloride	0.00020	U	0.00020	0.000078	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chlorobromomethane	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chlorodibromomethane	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chloroethane	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chloroform	0.00020	U	0.00020	0.00020	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chloromethane	0.00020	U	0.00020	0.000088	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Cyclohexane	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Dichlorobromomethane	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000068	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Ethylbenzene	0.00020	U	0.00020	0.000040	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Ethylene Dibromide	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Isopropylbenzene	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methyl acetate	0.0010	U	0.0010	0.00087	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methylcyclohexane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methylene Chloride	0.00040	U	0.00040	0.00023	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
n-Butylbenzene	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
N-Propylbenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
o-Xylene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
sec-Butylbenzene	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Styrene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
tert-Butylbenzene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Tetrachloroethene	**0.00024**		0.00020	0.000061	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Toluene	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Trichloroethene	0.00020	U	0.00020	0.000065	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000082	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Xylenes, Total	0.00040	U	0.00040	0.000035	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*	*10/04/22 13:31*	*10/06/22 16:35*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*	*10/04/22 13:31*	*10/06/22 16:35*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*10/04/22 13:31*	*10/06/22 16:35*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/04/22 13:31*	*10/06/22 16:35*	*1*

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Nitrophenol	0.69	U	0.69	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Acenaphthene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[a]pyrene	0.034	U	0.034	0.0090	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Chrysene	0.34	U	0.34	0.0057	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Fluorene	0.34	U	0.34	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachlorobutadiene	0.069	U	0.069	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Pentachlorophenol	0.27	U	0.27	0.070	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Phenanthrene	0.34	U	0.34	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Phenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Pyrene	0.34	U	0.34	0.0084	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*10 - 123*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
2-Fluorobiphenyl	*80*		*22 - 122*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
2-Fluorophenol (Surr)	*68*		*18 - 123*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
Nitrobenzene-d5 (Surr)	*69*		*16 - 125*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
Phenol-d5 (Surr)	*66*		*23 - 120*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
Terphenyl-d14 (Surr)	*84*		*25 - 126*	*10/04/22 18:31*	*10/05/22 05:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
beta-BHC	0.0021	U	0.0021	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Dieldrin	0.0021	U	0.0021	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:44*	*1*
DCB Decachlorobiphenyl	*63*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:44*	*1*
Tetrachloro-m-xylene	*80*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:44*	*1*
Tetrachloro-m-xylene	*74*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:44*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*
Tetrachloro-m-xylene	*82*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*
Tetrachloro-m-xylene	*78*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3830**		19.9	5.5	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Arsenic	**1.0**		1.0	0.10	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Barium	**29.2**		2.0	0.14	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Beryllium	**0.22**	**J**	0.40	0.057	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Calcium	**6370**		99.7	17.7	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Chromium	**10.2**		2.0	0.91	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Cobalt	**3.6**		2.0	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Copper	**15.4**		2.0	0.37	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Iron	**8020**		59.8	20.1	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Lead	**13.7**		0.60	0.20	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Magnesium	**4700**		99.7	10.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Manganese	**212**		4.0	0.40	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Nickel	**8.1**		2.0	0.47	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Potassium	**729**		99.7	16.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Selenium	1.2	U	1.2	0.13	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Silver	0.40	U	0.40	0.089	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Sodium	**170**		99.7	45.6	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Thallium	**0.062**	**J**	0.40	0.041	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	13.4		2.0	0.21	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Zinc	21.4		8.0	3.0	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0076	mg/Kg	☼	10/05/22 00:21	10/05/22 05:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.89	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	2.6		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	97.4		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.00026	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00049	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00045	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00034	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00024	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
2-Butanone (MEK)	0.0054	U	0.0054	0.00040	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
2-Hexanone	0.0054	U	0.0054	0.0018	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
4-Methyl-2-pentanone (MIBK)	0.0054	U	0.0054	0.0017	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Acetone	0.0065	U	0.0065	0.0062	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Benzene	0.0011	U	0.0011	0.00028	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Bromomethane	0.0022	U	0.0022	0.0011	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Carbon disulfide	0.0011	U	0.0011	0.00029	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Carbon tetrachloride	0.0011	U	0.0011	0.00042	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chloroethane	0.0011	U	0.0011	0.00056	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chloroform	0.0011	U	0.0011	0.0010	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chloromethane	0.0011	U	0.0011	0.00047	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1

Client Sample ID: SB-05_0-2_20221004
Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1
Matrix: Solid
Percent Solids: 90.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00036	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Ethylbenzene	0.0011	U	0.0011	0.00021	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Isopropylbenzene	0.0011	U	0.0011	0.00031	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methyl acetate	0.0054	U	0.0054	0.0046	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00055	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methylcyclohexane	0.0011	U	0.0011	0.00054	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methylene Chloride	0.0022	U	0.0022	0.0012	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
n-Butylbenzene	0.0011	U	0.0011	0.00032	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
N-Propylbenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
o-Xylene	0.0011	U	0.0011	0.00021	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
sec-Butylbenzene	0.0011	U	0.0011	0.00031	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Styrene	0.0011	U	0.0011	0.00030	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
tert-Butylbenzene	0.0011	U	0.0011	0.00030	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Tetrachloroethene	**0.0097**		0.0011	0.00033	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Toluene	0.0011	U	0.0011	0.00025	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00026	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Trichloroethene	0.0011	U	0.0011	0.00035	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Vinyl chloride	0.0011	U	0.0011	0.00059	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Xylenes, Total	0.0022	U	0.0022	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 145*	*10/05/22 20:07*	*10/07/22 01:54*	*1*
4-Bromofluorobenzene	*116*		*75 - 139*	*10/05/22 20:07*	*10/07/22 01:54*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*	*10/05/22 20:07*	*10/07/22 01:54*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/05/22 20:07*	*10/07/22 01:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**0.14**	**J**	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0066	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.047	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dichlorophenol	0.15	U	0.15	0.024	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dimethylphenol	0.37	U	0.37	0.044	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dinitrotoluene	0.074	U	0.074	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,6-Dinitrotoluene	0.074	U	0.074	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Chlorophenol	0.37	U	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1

Client Sample ID: SB-05_0-2_20221004
Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1
Matrix: Solid
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.28	J	0.37	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Methylphenol	0.37	U	0.37	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Nitroaniline	0.37	U	0.37	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Nitrophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
3 & 4 Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.055	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
3-Nitroaniline	0.37	U	0.37	0.087	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.15	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.015	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Chloroaniline	0.37	U	0.37	0.065	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Nitroaniline	0.37	U	0.37	0.042	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Nitrophenol	0.74	U	0.74	0.060	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Acenaphthene	2.7		0.37	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Acenaphthylene	0.67		0.37	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Acetophenone	0.37	U	0.37	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Anthracene	6.5		0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Atrazine	0.15	U *	0.15	0.022	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Benzaldehyde	0.37	U	0.37	0.061	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Benzo[g,h,i]perylene	7.5		0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Benzo[k]fluoranthene	7.6		0.037	0.0072	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.029	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Bis(2-ethylhexyl) phthalate	0.37	U	0.37	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Caprolactam	0.37	U *	0.37	0.057	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Carbazole	1.9		0.37	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Dibenz(a,h)anthracene	2.7		0.037	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Dibenzofuran	1.2		0.37	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Diethyl phthalate	0.37	U	0.37	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Dimethyl phthalate	0.37	U	0.37	0.083	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Di-n-butyl phthalate	0.026	J	0.37	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Di-n-octyl phthalate	0.37	U	0.37	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Fluorene	2.5		0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachlorobenzene	0.037	U	0.037	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachlorobutadiene	0.074	U	0.074	0.0078	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachloroethane	0.037	U	0.037	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Isophorone	0.15	U	0.15	0.11	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Naphthalene	0.47		0.37	0.0063	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Nitrobenzene	0.037	U	0.037	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.027	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
N-Nitrosodiphenylamine	0.056	J	0.37	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Pentachlorophenol	0.29	U	0.29	0.075	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Phenol	0.37	U	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*10 - 123*	*10/05/22 10:12*	*10/06/22 04:21*	*1*

Client Sample ID: SB-05_0-2_20221004

Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1

Matrix: Solid
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*22 - 122*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 123*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
Nitrobenzene-d5 (Surr)	*71*		*16 - 125*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
Phenol-d5 (Surr)	*68*		*23 - 120*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
Terphenyl-d14 (Surr)	*86*		*25 - 126*	*10/05/22 10:12*	*10/06/22 04:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**25**		0.37	0.13	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Benzo[a]pyrene	**23**		0.37	0.098	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Benzo[b]fluoranthene	**29**		0.37	0.095	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Chrysene	**23**		3.7	0.062	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Fluoranthene	**48**		3.7	0.13	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Indeno[1,2,3-cd]pyrene	**17**		0.37	0.14	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Phenanthrene	**27**		3.7	0.064	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Pyrene	**38**		3.7	0.091	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*112*		*10 - 123*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
2-Fluorobiphenyl	*94*		*22 - 122*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
2-Fluorophenol (Surr)	*84*		*18 - 123*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
Nitrobenzene-d5 (Surr)	*85*		*16 - 125*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
Phenol-d5 (Surr)	*86*		*23 - 120*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
Terphenyl-d14 (Surr)	*101*		*25 - 126*	*10/05/22 10:12*	*10/06/22 08:50*	*10*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0074	U	0.0074	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
4,4'-DDE	0.0074	U	0.0074	0.00088	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
4,4'-DDT	**0.0063**	**J**	0.0074	0.0014	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Aldrin	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
alpha-BHC	0.0022	U	0.0022	0.00075	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
beta-BHC	0.0022	U	0.0022	0.00083	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Chlordane (technical)	**0.12**		0.074	0.018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
cis-Chlordane	**0.013**	**p**	0.0074	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Dieldrin	**0.0027**		0.0022	0.00097	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endosulfan I	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endosulfan II	0.0074	U	0.0074	0.0019	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endosulfan sulfate	0.0074	U	0.0074	0.00093	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endrin	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endrin aldehyde	0.0074	U	0.0074	0.0018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endrin ketone	0.0074	U	0.0074	0.0014	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00069	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Heptachlor	0.0074	U	0.0074	0.00088	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Heptachlor epoxide	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Methoxychlor	0.0074	U	0.0074	0.0017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Toxaphene	0.074	U	0.074	0.027	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1

Client Sample ID: SB-05_0-2_20221004

Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1

Matrix: Solid
Percent Solids: 90.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		43 - 150	10/05/22 12:37	10/06/22 07:09	1
DCB Decachlorobiphenyl	60		43 - 150	10/05/22 12:37	10/06/22 07:09	1
Tetrachloro-m-xylene	68		26 - 137	10/05/22 12:37	10/06/22 07:09	1
Tetrachloro-m-xylene	59		26 - 137	10/05/22 12:37	10/06/22 07:09	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1221	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1232	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1242	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1248	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1254	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1260	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor-1262	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1268	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Polychlorinated biphenyls, Total	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		10 - 150	10/05/22 12:32	10/06/22 11:18	1
DCB Decachlorobiphenyl	103		10 - 150	10/05/22 12:32	10/06/22 11:18	1
Tetrachloro-m-xylene	84		42 - 150	10/05/22 12:32	10/06/22 11:18	1
Tetrachloro-m-xylene	94		42 - 150	10/05/22 12:32	10/06/22 11:18	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6680		21.8	6.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Antimony	0.30	J	1.1	0.16	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Arsenic	6.9		1.1	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Barium	119		2.2	0.16	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Beryllium	0.40	J	0.44	0.062	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Cadmium	0.66	J	1.1	0.12	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Calcium	18600		109	19.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Chromium	15.5		2.2	0.99	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Cobalt	5.3		2.2	0.16	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Copper	63.1		2.2	0.40	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Iron	13600		65.3	22.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Lead	283		0.65	0.22	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Magnesium	5510		109	11.1	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Manganese	265		4.4	0.44	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Nickel	16.3		2.2	0.51	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Potassium	1050		109	17.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Selenium	0.48	J	1.4	0.14	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Silver	0.25	J	0.44	0.097	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Sodium	444		109	49.7	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Thallium	0.13	J	0.44	0.045	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Vanadium	28.1		2.2	0.22	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Zinc	149		8.7	3.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.094**		0.019	0.0089	mg/Kg	☼	10/06/22 00:22	10/06/22 04:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.95	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**9.9**		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	**90.1**		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0016	U	0.0016	0.00037	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1,2,2-Tetrachloroethane	0.0016	U	0.0016	0.00034	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0016	U	0.0016	0.00048	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1,2-Trichloroethane	0.0016	U	0.0016	0.00029	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1-Dichloroethane	0.0016	U	0.0016	0.00033	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1-Dichloroethene	0.0016	U	0.0016	0.00036	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2,3-Trichlorobenzene	0.0016	U	0.0016	0.00029	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2,4-Trichlorobenzene	0.0016	U	0.0016	0.00057	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2,4-Trimethylbenzene	0.0016	U	0.0016	0.00039	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dibromo-3-Chloropropane	0.0016	U	0.0016	0.00074	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dichlorobenzene	0.0016	U	0.0016	0.00058	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dichloroethane	0.0016	U	0.0016	0.00048	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dichloropropane	0.0016	U	0.0016	0.00068	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,3,5-Trimethylbenzene	0.0016	U	0.0016	0.00050	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,3-Dichlorobenzene	0.0016	U	0.0016	0.00059	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,4-Dichlorobenzene	0.0016	U	0.0016	0.00036	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
2-Butanone (MEK)	0.0080	U	0.0080	0.00059	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
2-Hexanone	0.0080	U	0.0080	0.0027	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
4-Methyl-2-pentanone (MIBK)	0.0080	U	0.0080	0.0025	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Acetone	**0.14**		0.0096	0.0092	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Benzene	0.0016	U	0.0016	0.00041	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Bromoform	0.0016	U	0.0016	0.00068	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Bromomethane	0.0032	U	0.0032	0.0016	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Carbon disulfide	0.0016	U	0.0016	0.00043	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Carbon tetrachloride	0.0016	U	0.0016	0.00062	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chlorobenzene	0.0016	U	0.0016	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chlorobromomethane	0.0016	U	0.0016	0.00045	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chlorodibromomethane	0.0016	U	0.0016	0.00031	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chloroethane	0.0016	U	0.0016	0.00084	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chloroform	0.0016	U	0.0016	0.0016	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chloromethane	0.0016	U	0.0016	0.00070	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
cis-1,2-Dichloroethene	0.0016	U	0.0016	0.00057	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
cis-1,3-Dichloropropene	0.0016	U	0.0016	0.00044	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Cyclohexane	0.0016	U	0.0016	0.00035	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Dichlorobromomethane	0.0016	U	0.0016	0.00041	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Dichlorodifluoromethane	0.0016	U	0.0016	0.00054	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1

Client Sample ID: SB-05_29-31_20221004
Date Collected: 10/04/22 10:35
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-2
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.0016	U	0.0016	0.00032	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Ethylene Dibromide	0.0016	U	0.0016	0.00029	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Isopropylbenzene	0.0016	U	0.0016	0.00046	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methyl acetate	0.0080	U	0.0080	0.0069	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methyl tert-butyl ether	0.0016	U	0.0016	0.00082	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methylcyclohexane	0.0016	U	0.0016	0.00080	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methylene Chloride	0.0032	U	0.0032	0.0018	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
m-Xylene & p-Xylene	0.0016	U	0.0016	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
n-Butylbenzene	0.0016	U	0.0016	0.00047	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
N-Propylbenzene	0.0016	U	0.0016	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
o-Xylene	0.0016	U	0.0016	0.00031	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
sec-Butylbenzene	0.0016	U	0.0016	0.00046	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Styrene	0.0016	U	0.0016	0.00045	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
tert-Butylbenzene	0.0016	U	0.0016	0.00044	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Tetrachloroethene	**0.0014**	**J**	0.0016	0.00049	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Toluene	0.0016	U	0.0016	0.00038	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
trans-1,2-Dichloroethene	0.0016	U	0.0016	0.00039	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
trans-1,3-Dichloropropene	0.0016	U	0.0016	0.00043	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Trichloroethene	0.0016	U	0.0016	0.00052	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Trichlorofluoromethane	0.0016	U	0.0016	0.00065	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Vinyl chloride	0.0016	U	0.0016	0.00088	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Xylenes, Total	0.0032	U	0.0032	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 145*	*10/05/22 20:09*	*10/07/22 02:19*	*1*
4-Bromofluorobenzene	*109*		*75 - 139*	*10/05/22 20:09*	*10/07/22 02:19*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*	*10/05/22 20:09*	*10/07/22 02:19*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*	*10/05/22 20:09*	*10/07/22 02:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0062	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Methylnaphthalene	0.34	U	0.34	0.0096	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1

Client Sample ID: SB-05_29-31_20221004
Date Collected: 10/04/22 10:35
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-2
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.14	U	0.14	0.052	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Chloroaniline	0.34	U	0.34	0.061	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Nitrophenol	0.69	U	0.69	0.056	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Acenaphthene	**0.030**	**J**	0.34	0.0097	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Acenaphthylene	**0.037**	**J**	0.34	0.0098	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Anthracene	**0.080**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Atrazine	0.14	U *	0.14	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzaldehyde	0.34	U	0.34	0.057	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[a]anthracene	**0.27**		0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[a]pyrene	**0.29**		0.034	0.0091	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[b]fluoranthene	**0.39**		0.034	0.0088	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[g,h,i]perylene	**1.3**		0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[k]fluoranthene	**0.14**		0.034	0.0067	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.027	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Caprolactam	0.34	U *	0.34	0.053	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Carbazole	**0.023**	**J**	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Chrysene	**0.20**	**J**	0.34	0.0058	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Dibenz(a,h)anthracene	**0.22**		0.034	0.015	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Dimethyl phthalate	0.34	U	0.34	0.078	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Fluoranthene	**0.46**		0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Fluorene	**0.018**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachlorobutadiene	0.069	U	0.069	0.0073	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Indeno[1,2,3-cd]pyrene	**1.2**		0.034	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Isophorone	0.14	U	0.14	0.099	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Naphthalene	**0.0062**	**J**	0.34	0.0059	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Pentachlorophenol	0.27	U	0.27	0.070	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Phenanthrene	**0.18**	**J**	0.34	0.0060	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Phenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1

Client Sample ID: SB-05_29-31_20221004

Date Collected: 10/04/22 10:35
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-2

Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.39		0.34	0.0085	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 123*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
2-Fluorobiphenyl	*85*		*22 - 122*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
2-Fluorophenol (Surr)	*70*		*18 - 123*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
Nitrobenzene-d5 (Surr)	*74*		*16 - 125*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
Phenol-d5 (Surr)	*69*		*23 - 120*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
Terphenyl-d14 (Surr)	*91*		*25 - 126*	*10/05/22 10:12*	*10/06/22 04:38*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
4,4'-DDE	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
beta-BHC	0.0021	U	0.0021	0.00078	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Dieldrin	0.0021	U	0.0021	0.00090	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endosulfan I	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endosulfan sulfate	0.0069	U	0.0069	0.00087	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Heptachlor	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:21*	*1*
DCB Decachlorobiphenyl	*60*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:21*	*1*
Tetrachloro-m-xylene	*80*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:21*	*1*
Tetrachloro-m-xylene	*71*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:21*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*
Tetrachloro-m-xylene	*109*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*
Tetrachloro-m-xylene	*102*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3380**		20.7	5.7	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Arsenic	**0.72**	**J**	1.0	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Barium	**22.4**		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Beryllium	**0.19**	**J**	0.41	0.059	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Cadmium	1.0	U	1.0	0.12	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Calcium	**18100**		104	18.4	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Chromium	**9.7**		2.1	0.94	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Cobalt	**3.0**		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Copper	**8.9**		2.1	0.38	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Iron	**6800**		62.2	20.9	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Lead	**4.8**		0.62	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Magnesium	**9550**		104	10.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Manganese	**190**		4.1	0.42	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Nickel	**6.7**		2.1	0.49	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Potassium	**694**		104	16.8	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Selenium	1.3	U	1.3	0.13	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Silver	0.41	U	0.41	0.092	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Sodium	**175**		104	47.4	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Thallium	0.41	U	0.41	0.043	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Vanadium	**12.5**		2.1	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Zinc	**16.4**		8.3	3.2	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0082	mg/Kg	☼	10/06/22 00:22	10/06/22 03:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	10/10/22 17:57	10/11/22 10:10	1
Percent Moisture (EPA Moisture)	**3.5**		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	**96.5**		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-06_0-2_20221004

Lab Sample ID: 460-266826-3
Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0014	U	0.0014	0.00033	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1

Client Sample ID: SB-06_0-2_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-3
Matrix: Solid
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.0014	U	0.0014	0.00030	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0014	U	0.0014	0.00043	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1,2-Trichloroethane	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1-Dichloroethane	0.0014	U	0.0014	0.00029	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1-Dichloroethene	0.0014	U	0.0014	0.00032	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2,3-Trichlorobenzene	0.0014	U	0.0014	0.00026	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2,4-Trichlorobenzene	0.0014	U	0.0014	0.00051	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2,4-Trimethylbenzene	0.0014	U	0.0014	0.00035	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dibromo-3-Chloropropane	0.0014	U	0.0014	0.00065	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dichlorobenzene	0.0014	U	0.0014	0.00051	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dichloroethane	0.0014	U	0.0014	0.00042	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dichloropropane	0.0014	U	0.0014	0.00060	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,3,5-Trimethylbenzene	0.0014	U	0.0014	0.00044	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,3-Dichlorobenzene	0.0014	U	0.0014	0.00052	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,4-Dichlorobenzene	0.0014	U	0.0014	0.00032	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
2-Butanone (MEK)	0.0071	U	0.0071	0.00052	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
2-Hexanone	0.0071	U	0.0071	0.0024	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
4-Methyl-2-pentanone (MIBK)	0.0071	U	0.0071	0.0022	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Acetone	0.0085	U	0.0085	0.0081	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Benzene	0.0014	U	0.0014	0.00036	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Bromoform	0.0014	U	0.0014	0.00060	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Bromomethane	0.0028	U	0.0028	0.0014	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Carbon disulfide	0.0014	U	0.0014	0.00038	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Carbon tetrachloride	0.0014	U	0.0014	0.00055	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chlorobenzene	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chlorobromomethane	0.0014	U	0.0014	0.00040	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chlorodibromomethane	0.0014	U	0.0014	0.00027	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chloroethane	0.0014	U	0.0014	0.00074	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chloroform	0.0014	U	0.0014	0.0014	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chloromethane	0.0014	U	0.0014	0.00061	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
cis-1,2-Dichloroethene	0.0014	U	0.0014	0.00051	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
cis-1,3-Dichloropropene	0.0014	U	0.0014	0.00039	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Cyclohexane	0.0014	U	0.0014	0.00031	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Dichlorobromomethane	0.0014	U	0.0014	0.00036	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Dichlorodifluoromethane	0.0014	U	0.0014	0.00048	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Ethylbenzene	0.0014	U	0.0014	0.00028	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Ethylene Dibromide	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Isopropylbenzene	0.0014	U	0.0014	0.00040	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methyl acetate	0.0071	U	0.0071	0.0061	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methyl tert-butyl ether	0.0014	U	0.0014	0.00072	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methylcyclohexane	0.0014	U	0.0014	0.00071	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methylene Chloride	0.0028	U	0.0028	0.0016	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
m-Xylene & p-Xylene	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
n-Butylbenzene	0.0014	U	0.0014	0.00042	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
N-Propylbenzene	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
o-Xylene	0.0014	U	0.0014	0.00027	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
sec-Butylbenzene	0.0014	U	0.0014	0.00041	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Styrene	0.0014	U	0.0014	0.00039	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
tert-Butylbenzene	0.0014	U	0.0014	0.00039	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1

Client Sample ID: SB-06_0-2_20221004

Date Collected: 10/04/22 14:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-3

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.0014	U	0.0014	0.00043	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Toluene	0.0014	U	0.0014	0.00033	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
trans-1,2-Dichloroethene	0.0014	U	0.0014	0.00035	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
trans-1,3-Dichloropropene	0.0014	U	0.0014	0.00038	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Trichloroethene	0.0014	U	0.0014	0.00045	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Trichlorofluoromethane	0.0014	U	0.0014	0.00057	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Vinyl chloride	0.0014	U	0.0014	0.00077	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Xylenes, Total	0.0028	U	0.0028	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 145*	*10/05/22 20:10*	*10/07/22 02:43*	*1*
4-Bromofluorobenzene	*116*		*75 - 139*	*10/05/22 20:10*	*10/07/22 02:43*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 139*	*10/05/22 20:10*	*10/07/22 02:43*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/05/22 20:10*	*10/07/22 02:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
1,4-Dioxane	0.036	U	0.036	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.046	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dichlorophenol	0.15	U	0.15	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dimethylphenol	0.36	U	0.36	0.043	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dinitrotoluene	0.073	U	0.073	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,6-Dinitrotoluene	0.073	U	0.073	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Chlorophenol	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Methylnaphthalene	0.36	U	0.36	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Methylphenol	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Nitroaniline	0.36	U	0.36	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Nitrophenol	0.36	U	0.36	0.036	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
3 & 4 Methylphenol	0.36	U	0.36	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.055	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
3-Nitroaniline	0.36	U	0.36	0.086	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.15	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Chloroaniline	0.36	U	0.36	0.064	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Methylphenol	0.36	U	0.36	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Nitroaniline	0.36	U	0.36	0.042	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Nitrophenol	0.73	U	0.73	0.059	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Acenaphthene	0.36	U	0.36	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Acenaphthylene	**0.010**	**J**	0.36	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Acetophenone	0.36	U	0.36	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Anthracene	**0.028**	**J**	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1

Client Sample ID: SB-06_0-2_20221004

Date Collected: 10/04/22 14:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-3

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.15	U *	0.15	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzaldehyde	0.36	U	0.36	0.060	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[a]anthracene	0.036	U	0.036	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[a]pyrene	**0.13**		0.036	0.0096	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[b]fluoranthene	**0.17**		0.036	0.0094	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[g,h,i]perylene	**0.062**	**J**	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[k]fluoranthene	**0.066**		0.036	0.0071	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Bis(2-ethylhexyl) phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Butyl benzyl phthalate	0.36	U	0.36	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Caprolactam	0.36	U *	0.36	0.056	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Carbazole	0.36	U	0.36	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Chrysene	**0.11**	**J**	0.36	0.0061	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Dibenz(a,h)anthracene	0.036	U	0.036	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Dibenzofuran	0.36	U	0.36	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Diethyl phthalate	0.36	U	0.36	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Dimethyl phthalate	0.36	U	0.36	0.082	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Di-n-butyl phthalate	0.36	U	0.36	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Fluoranthene	**0.22**	**J**	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Fluorene	0.36	U	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachlorobenzene	0.036	U	0.036	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachlorobutadiene	0.073	U	0.073	0.0077	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachloroethane	0.036	U	0.036	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.036	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Isophorone	0.15	U	0.15	0.10	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Naphthalene	0.36	U	0.36	0.0063	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Nitrobenzene	0.036	U	0.036	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Pentachlorophenol	0.29	U	0.29	0.074	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Phenanthrene	**0.12**	**J**	0.36	0.0064	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Phenol	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Pyrene	**0.21**	**J**	0.36	0.0090	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*10 - 123*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
2-Fluorobiphenyl	*89*		*22 - 122*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
2-Fluorophenol (Surr)	*75*		*18 - 123*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
Nitrobenzene-d5 (Surr)	*79*		*16 - 125*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
Phenol-d5 (Surr)	*77*		*23 - 120*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
Terphenyl-d14 (Surr)	*98*		*25 - 126*	*10/05/22 10:12*	*10/06/22 03:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
4,4'-DDE	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
4,4'-DDT	0.0073	U	0.0073	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1

Client Sample ID: SB-06_0-2_20221004

Date Collected: 10/04/22 14:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-3

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
alpha-BHC	0.0022	U	0.0022	0.00074	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
beta-BHC	0.0022	U	0.0022	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Chlordane (technical)	0.073	U	0.073	0.018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
cis-Chlordane	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Dieldrin	0.0022	U	0.0022	0.00095	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endosulfan I	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endosulfan II	0.0073	U	0.0073	0.0019	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endosulfan sulfate	0.0073	U	0.0073	0.00092	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endrin	0.0073	U	0.0073	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endrin aldehyde	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endrin ketone	0.0073	U	0.0073	0.0014	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00068	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Heptachlor	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Heptachlor epoxide	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Methoxychlor	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Toxaphene	0.073	U	0.073	0.026	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:34*	*1*
DCB Decachlorobiphenyl	*69*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:34*	*1*
Tetrachloro-m-xylene	*73*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:34*	*1*
Tetrachloro-m-xylene	*67*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:34*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1221	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1232	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1242	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1248	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1254	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1260	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor-1262	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1268	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Polychlorinated biphenyls, Total	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*
DCB Decachlorobiphenyl	*114*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*
Tetrachloro-m-xylene	*95*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*
Tetrachloro-m-xylene	*96*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6750**		20.8	5.7	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Arsenic	**3.4**		1.0	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Barium	**37.3**		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1

Client Sample ID: SB-06_0-2_20221004

Lab Sample ID: 460-266826-3

Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 91.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.41	J	0.42	0.059	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Cadmium	0.16	J	1.0	0.12	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Calcium	8910		104	18.4	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Chromium	12.3		2.1	0.95	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Cobalt	6.0		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Copper	27.7		2.1	0.38	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Iron	11500		62.5	21.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Lead	30.4		0.62	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Magnesium	3720		104	10.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Manganese	335		4.2	0.42	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Nickel	12.3		2.1	0.49	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Potassium	763		104	16.9	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Selenium	0.19	J	1.3	0.13	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Silver	0.42	U	0.42	0.093	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Sodium	281		104	47.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Thallium	0.079	J	0.42	0.043	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Vanadium	17.2		2.1	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Zinc	42.5		8.3	3.2	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.017	0.0082	mg/Kg	☼	10/06/22 00:22	10/06/22 04:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.93	mg/Kg	☼	10/10/22 17:57	10/11/22 10:10	1
Percent Moisture (EPA Moisture)	8.6		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	91.4		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-06_29-31_20221004

Lab Sample ID: 460-266826-4

Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0012	U	0.0012	0.00028	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.00026	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0012	U	0.0012	0.00036	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1,2-Trichloroethane	0.0012	U	0.0012	0.00022	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1-Dichloroethane	0.0012	U	0.0012	0.00025	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1-Dichloroethene	0.0012	U	0.0012	0.00027	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2,3-Trichlorobenzene	0.0012	U	0.0012	0.00022	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.00043	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2,4-Trimethylbenzene	0.0012	U	0.0012	0.00030	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dibromo-3-Chloropropane	0.0012	U	0.0012	0.00056	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dichlorobenzene	0.0012	U	0.0012	0.00044	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dichloroethane	0.0012	U	0.0012	0.00036	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dichloropropane	0.0012	U	0.0012	0.00051	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,3,5-Trimethylbenzene	0.0012	U	0.0012	0.00038	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,3-Dichlorobenzene	0.0012	U	0.0012	0.00044	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0012	U	0.0012	0.00027	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
2-Butanone (MEK)	0.0061	U	0.0061	0.00045	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
2-Hexanone	0.0061	U	0.0061	0.0021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
4-Methyl-2-pentanone (MIBK)	0.0061	U	0.0061	0.0019	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Acetone	0.0073	U	0.0073	0.0069	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Benzene	0.0012	U	0.0012	0.00031	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Bromoform	0.0012	U	0.0012	0.00051	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Bromomethane	0.0024	U	0.0024	0.0012	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Carbon disulfide	0.0012	U	0.0012	0.00032	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Carbon tetrachloride	0.0012	U	0.0012	0.00047	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chlorobenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chlorobromomethane	0.0012	U	0.0012	0.00034	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chlorodibromomethane	0.0012	U	0.0012	0.00023	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chloroethane	0.0012	U	0.0012	0.00063	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chloromethane	0.0012	U	0.0012	0.00053	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
cis-1,2-Dichloroethene	0.0012	U	0.0012	0.00043	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
cis-1,3-Dichloropropene	0.0012	U	0.0012	0.00033	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Cyclohexane	0.0012	U	0.0012	0.00027	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Dichlorobromomethane	0.0012	U	0.0012	0.00031	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Dichlorodifluoromethane	0.0012	U	0.0012	0.00041	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Ethylbenzene	0.0012	U	0.0012	0.00024	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Ethylene Dibromide	0.0012	U	0.0012	0.00022	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Isopropylbenzene	0.0012	U	0.0012	0.00035	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methyl acetate	0.0061	U	0.0061	0.0052	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methyl tert-butyl ether	0.0012	U	0.0012	0.00062	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methylcyclohexane	0.0012	U	0.0012	0.00060	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methylene Chloride	0.0024	U	0.0024	0.0014	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
m-Xylene & p-Xylene	0.0012	U	0.0012	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
n-Butylbenzene	0.0012	U	0.0012	0.00036	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
N-Propylbenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
o-Xylene	0.0012	U	0.0012	0.00023	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
sec-Butylbenzene	0.0012	U	0.0012	0.00035	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Styrene	0.0012	U	0.0012	0.00034	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
tert-Butylbenzene	0.0012	U	0.0012	0.00033	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Tetrachloroethene	**0.00087**	**J**	0.0012	0.00037	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Toluene	0.0012	U	0.0012	0.00028	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
trans-1,2-Dichloroethene	0.0012	U	0.0012	0.00030	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
trans-1,3-Dichloropropene	0.0012	U	0.0012	0.00032	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Trichloroethene	0.0012	U	0.0012	0.00039	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Trichlorofluoromethane	0.0012	U	0.0012	0.00049	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Vinyl chloride	0.0012	U	0.0012	0.00066	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Xylenes, Total	0.0024	U	0.0024	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 145*	*10/05/22 20:12*	*10/07/22 03:08*	*1*
4-Bromofluorobenzene	*107*		*75 - 139*	*10/05/22 20:12*	*10/07/22 03:08*	*1*
Dibromofluoromethane (Surr)	*93*		*73 - 139*	*10/05/22 20:12*	*10/07/22 03:08*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*10/05/22 20:12*	*10/07/22 03:08*	*1*

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0062	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dinitrophenol	0.28	U	0.28	0.17	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Methylnaphthalene	0.34	U	0.34	0.0096	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.052	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4,6-Dinitro-2-methylphenol	0.28	U	0.28	0.14	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Chloroaniline	0.34	U	0.34	0.061	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Nitrophenol	0.69	U	0.69	0.056	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Acenaphthene	0.34	U	0.34	0.0098	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Acenaphthylene	0.34	U	0.34	0.0098	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Anthracene	**0.023**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Atrazine	0.14	U *	0.14	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzaldehyde	0.34	U	0.34	0.057	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[a]pyrene	**0.053**		0.034	0.0091	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0089	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[g,h,i]perylene	**0.024**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0067	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.027	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Caprolactam	0.34	U *	0.34	0.053	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Chrysene	**0.049**	**J**	0.34	0.0058	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Dimethyl phthalate	0.34	U	0.34	0.078	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Fluoranthene	**0.10**	**J**	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Fluorene	0.34	U	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachlorobutadiene	0.069	U	0.069	0.0073	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Indeno[1,2,3-cd]pyrene	**0.071**		0.034	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Isophorone	0.14	U	0.14	0.099	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Pentachlorophenol	0.28	U	0.28	0.070	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Phenanthrene	**0.076**	**J**	0.34	0.0060	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Phenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Pyrene	**0.10**	**J**	0.34	0.0085	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 123*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
2-Fluorobiphenyl	*92*		*22 - 122*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
2-Fluorophenol (Surr)	*77*		*18 - 123*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
Nitrobenzene-d5 (Surr)	*80*		*16 - 125*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
Phenol-d5 (Surr)	*77*		*23 - 120*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
Terphenyl-d14 (Surr)	*97*		*25 - 126*	*10/05/22 10:12*	*10/06/22 04:04*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
4,4'-DDE	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
beta-BHC	0.0021	U	0.0021	0.00078	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Dieldrin	0.0021	U	0.0021	0.00090	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endosulfan I	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endosulfan sulfate	0.0069	U	0.0069	0.00087	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Heptachlor	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:46*	*1*
DCB Decachlorobiphenyl	*56*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:46*	*1*
Tetrachloro-m-xylene	*65*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:46*	*1*
Tetrachloro-m-xylene	*59*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:46*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*
DCB Decachlorobiphenyl	*100*		*10 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*
Tetrachloro-m-xylene	*85*		*42 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*
Tetrachloro-m-xylene	*99*		*42 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3730**		20.1	5.5	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Arsenic	**0.79**	**J**	1.0	0.10	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Barium	**23.0**		2.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Beryllium	**0.19**	**J**	0.40	0.057	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Calcium	**22200**		101	17.8	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Chromium	**9.1**		2.0	0.91	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Cobalt	**3.7**		2.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Copper	**9.6**		2.0	0.37	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Iron	**8350**		60.4	20.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Lead	**2.2**		0.60	0.20	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Magnesium	**14700**		101	10.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Manganese	**176**		4.0	0.41	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Nickel	**7.9**		2.0	0.47	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Potassium	**918**		101	16.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Selenium	1.3	U	1.3	0.13	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Silver	0.40	U	0.40	0.090	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Sodium	**281**		101	46.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Thallium	**0.049**	**J**	0.40	0.041	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1

Client Sample ID: SB-06_29-31_20221004

Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**15.5**		2.0	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Zinc	**22.7**		8.1	3.1	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.016	0.0075	mg/Kg	☼	10/06/22 00:22	10/06/22 04:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	10/10/22 17:57	10/11/22 10:10	1
Percent Moisture (EPA Moisture)	**3.5**		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	**96.5**		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-01_0-2_20221005

Lab Sample ID: 460-266877-1
Date Collected: 10/05/22 08:10
Matrix: Solid
Date Received: 10/05/22 18:00
Percent Solids: 91.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00040	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00027	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00030	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2,4-Trimethylbenzene	**0.00055**	**J**	0.0013	0.00033	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00061	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00056	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00042	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00049	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00030	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
2-Butanone (MEK)	0.0067	U	0.0067	0.00049	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
2-Hexanone	0.0067	U	0.0067	0.0023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
4-Methyl-2-pentanone (MIBK)	0.0067	U	0.0067	0.0021	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Acetone	0.0080	U	0.0080	0.0076	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Benzene	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Bromoform	0.0013	U	0.0013	0.00057	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Bromomethane	0.0027	U	0.0027	0.0013	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Carbon disulfide	0.0013	U	0.0013	0.00035	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Carbon tetrachloride	0.0013	U	0.0013	0.00052	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chlorobromomethane	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chlorodibromomethane	0.0013	U	0.0013	0.00026	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chloroethane	0.0013	U	0.0013	0.00070	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chloroform	0.0013	U	0.0013	0.0013	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chloromethane	0.0013	U	0.0013	0.00058	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1

Client Sample ID: SB-01_0-2_20221005
Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1
Matrix: Solid
Percent Solids: 91.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Cyclohexane	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Dichlorobromomethane	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00045	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Ethylbenzene	0.0013	U	0.0013	0.00027	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Ethylene Dibromide	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Isopropylbenzene	0.0013	U	0.0013	0.00038	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methyl acetate	0.0067	U	0.0067	0.0057	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00068	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methylcyclohexane	0.0013	U	0.0013	0.00067	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methylene Chloride	0.0027	U	0.0027	0.0015	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
n-Butylbenzene	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
N-Propylbenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
o-Xylene	0.0013	U	0.0013	0.00026	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
sec-Butylbenzene	0.0013	U	0.0013	0.00038	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Styrene	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
tert-Butylbenzene	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Tetrachloroethene	0.0013	U	0.0013	0.00041	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Toluene	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00033	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00035	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Trichloroethene	0.0013	U	0.0013	0.00043	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00054	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Vinyl chloride	0.0013	U	0.0013	0.00073	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Xylenes, Total	0.0027	U	0.0027	0.00023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 145*	*10/06/22 16:35*	*10/08/22 02:26*	*1*
4-Bromofluorobenzene	*111*		*75 - 139*	*10/06/22 16:35*	*10/08/22 02:26*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 139*	*10/06/22 16:35*	*10/08/22 02:26*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*10/06/22 16:35*	*10/08/22 02:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**0.081**	**J**	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
1,4-Dioxane	0.036	U	0.036	0.031	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.037	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.046	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dichlorophenol	0.14	U	0.14	0.023	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dimethylphenol	0.36	U	0.36	0.043	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dinitrotoluene	0.073	U	0.073	0.039	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,6-Dinitrotoluene	0.073	U	0.073	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Chlorophenol	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1

Client Sample ID: SB-01_0-2_20221005
Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1
Matrix: Solid
Percent Solids: 91.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.28	J	0.36	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Methylphenol	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Nitroaniline	0.36	U	0.36	0.027	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Nitrophenol	0.36	U	0.36	0.036	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
3 & 4 Methylphenol	0.36	U	0.36	0.022	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
3-Nitroaniline	0.36	U	0.36	0.085	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.15	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.020	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Chloroaniline	0.36	U	0.36	0.064	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Methylphenol	0.36	U	0.36	0.022	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Nitroaniline	0.36	U	0.36	0.041	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Nitrophenol	0.73	U	0.73	0.059	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Acenaphthene	0.84		0.36	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Acenaphthylene	0.22	J	0.36	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Acetophenone	0.36	U	0.36	0.018	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Anthracene	2.3		0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Atrazine	0.14	U	0.14	0.021	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzaldehyde	0.36	U	0.36	0.060	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[a]anthracene	6.5		0.036	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[a]pyrene	5.3		0.036	0.0096	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[b]fluoranthene	7.1		0.036	0.0093	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[g,h,i]perylene	3.3		0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[k]fluoranthene	2.3		0.036	0.0071	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.028	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Bis(2-ethylhexyl) phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Butyl benzyl phthalate	0.36	U	0.36	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Caprolactam	0.36	U	0.36	0.056	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Carbazole	0.86		0.36	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Chrysene	6.0		0.36	0.0061	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Dibenz(a,h)anthracene	0.95		0.036	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Dibenzofuran	0.50		0.36	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Diethyl phthalate	0.36	U	0.36	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Dimethyl phthalate	0.36	U	0.36	0.082	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Di-n-butyl phthalate	0.36	U	0.36	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Fluorene	0.77		0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachlorobenzene	0.036	U	0.036	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachlorobutadiene	0.073	U	0.073	0.0077	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.032	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachloroethane	0.036	U	0.036	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Indeno[1,2,3-cd]pyrene	4.2		0.036	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Isophorone	0.14	U	0.14	0.10	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Naphthalene	0.37		0.36	0.0062	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Nitrobenzene	0.036	U	0.036	0.020	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1

Client Sample ID: SB-01_0-2_20221005

Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1

Matrix: Solid
Percent Solids: 91.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	0.36	U	0.36	0.030	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Pentachlorophenol	0.29	U	0.29	0.074	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Phenol	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*10 - 123*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
2-Fluorobiphenyl	*55*		*22 - 122*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
2-Fluorophenol (Surr)	*50*		*18 - 123*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
Nitrobenzene-d5 (Surr)	*49*		*16 - 125*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
Phenol-d5 (Surr)	*51*		*23 - 120*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
Terphenyl-d14 (Surr)	*64*		*25 - 126*	*10/07/22 10:42*	*10/08/22 08:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**18**		1.8	0.063	mg/Kg	☼	10/07/22 10:42	10/09/22 05:30	5
Phenanthrene	**16**		1.8	0.032	mg/Kg	☼	10/07/22 10:42	10/09/22 05:30	5
Pyrene	**17**		1.8	0.045	mg/Kg	☼	10/07/22 10:42	10/09/22 05:30	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
4,4'-DDE	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
4,4'-DDT	**0.0033**	**J**	0.0073	0.0013	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Aldrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
alpha-BHC	0.0022	U	0.0022	0.00074	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
beta-BHC	0.0022	U	0.0022	0.00082	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Chlordane (technical)	0.073	U	0.073	0.018	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
cis-Chlordane	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Dieldrin	**0.0020**	**J**	0.0022	0.00095	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endosulfan I	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endosulfan II	0.0073	U	0.0073	0.0019	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endosulfan sulfate	0.0073	U	0.0073	0.00091	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endrin	0.0073	U	0.0073	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endrin aldehyde	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endrin ketone	0.0073	U	0.0073	0.0014	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00067	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Heptachlor	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Heptachlor epoxide	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Methoxychlor	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Toxaphene	0.073	U	0.073	0.026	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:14*	*1*
DCB Decachlorobiphenyl	*84*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:14*	*1*
Tetrachloro-m-xylene	*70*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:14*	*1*
Tetrachloro-m-xylene	*64*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:14*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1

Client Sample ID: SB-01_0-2_20221005
Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1
Matrix: Solid
Percent Solids: 91.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1232	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1242	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1248	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1254	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1260	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor-1262	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1268	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Polychlorinated biphenyls, Total	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*
DCB Decachlorobiphenyl	*96*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*
Tetrachloro-m-xylene	*83*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5960**		17.3	4.8	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Antimony	**0.25**	**J**	0.87	0.13	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Arsenic	**2.2**		0.87	0.089	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Barium	**35.1**		1.7	0.13	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Beryllium	**0.32**	**J**	0.35	0.049	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Cadmium	**0.098**	**J**	0.87	0.098	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Calcium	**5840**		86.6	15.3	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Chromium	**16.7**		1.7	0.79	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Cobalt	**5.2**		1.7	0.13	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Copper	**15.2**		1.7	0.32	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Iron	**10500**		51.9	17.5	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Lead	**19.1**		0.52	0.17	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Magnesium	**2460**		86.6	8.8	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Manganese	**338**		3.5	0.35	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Nickel	**12.1**		1.7	0.41	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Potassium	**714**		86.6	14.0	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Selenium	1.1	U	1.1	0.11	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Silver	0.35	U	0.35	0.077	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Sodium	**152**		86.6	39.6	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Thallium	**0.058**	**J**	0.35	0.035	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Vanadium	**21.8**		1.7	0.18	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Zinc	**28.9**		6.9	2.6	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.017	0.0082	mg/Kg	☼	10/10/22 00:23	10/10/22 03:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.89	mg/Kg	☼	10/10/22 08:35	10/10/22 11:45	1
Percent Moisture (EPA Moisture)	**8.7**		1.0	1.0	%			10/10/22 19:01	1
Percent Solids (EPA Moisture)	**91.3**		1.0	1.0	%			10/10/22 19:01	1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00028	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00027	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00047	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2,4-Trimethylbenzene	0.0013	U	0.0013	0.00032	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00060	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00047	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00055	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00041	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
2-Butanone (MEK)	0.0066	U	0.0066	0.00048	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
2-Hexanone	0.0066	U	0.0066	0.0022	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
4-Methyl-2-pentanone (MIBK)	0.0066	U	0.0066	0.0020	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Acetone	0.16		0.0079	0.0075	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Benzene	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Bromoform	0.0013	U	0.0013	0.00056	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Bromomethane	0.0026	U	0.0026	0.0013	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Carbon disulfide	0.0013	U *	0.0013	0.00035	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Carbon tetrachloride	0.0013	U	0.0013	0.00051	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chlorobenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chlorobromomethane	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chlorodibromomethane	0.0013	U	0.0013	0.00025	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chloroethane	0.0013	U	0.0013	0.00068	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chloroform	0.0013	U	0.0013	0.0013	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chloromethane	0.0013	U	0.0013	0.00057	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00047	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Cyclohexane	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Dichlorobromomethane	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00044	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Ethylbenzene	0.0013	U	0.0013	0.00026	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Ethylene Dibromide	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Isopropylbenzene	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methyl acetate	0.0066	U	0.0066	0.0056	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00067	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methylcyclohexane	0.0013	U	0.0013	0.00065	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methylene Chloride	0.0026	U	0.0026	0.0015	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
n-Butylbenzene	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
N-Propylbenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
o-Xylene	0.0013	U	0.0013	0.00025	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
sec-Butylbenzene	0.0013	U	0.0013	0.00038	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Styrene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Tetrachloroethene	**0.0020**		0.0013	0.00040	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Toluene	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00032	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00035	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Trichloroethene	0.0013	U	0.0013	0.00042	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00053	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Vinyl chloride	0.0013	U	0.0013	0.00072	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Xylenes, Total	0.0026	U	0.0026	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 145*	*10/06/22 16:37*	*10/08/22 11:50*	*1*
4-Bromofluorobenzene	*115*		*75 - 139*	*10/06/22 16:37*	*10/08/22 11:50*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*	*10/06/22 16:37*	*10/08/22 11:50*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*	*10/06/22 16:37*	*10/08/22 11:50*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0061	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.043	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dimethylphenol	0.34	U	0.34	0.040	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dinitrotoluene	0.068	U	0.068	0.036	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,6-Dinitrotoluene	0.068	U	0.068	0.024	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
3-Nitroaniline	0.34	U	0.34	0.080	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Nitrophenol	0.68	U	0.68	0.055	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Acenaphthene	0.34	U	0.34	0.0096	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[a]pyrene	0.034	U	0.034	0.0090	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0087	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0066	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Chrysene	0.34	U	0.34	0.0057	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Fluorene	0.34	U	0.34	0.0099	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachlorobutadiene	0.068	U	0.068	0.0072	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Naphthalene	0.34	U	0.34	0.0058	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Pentachlorophenol	0.27	U	0.27	0.069	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Phenanthrene	0.34	U	0.34	0.0059	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Phenol	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Pyrene	0.34	U	0.34	0.0084	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 123*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
2-Fluorobiphenyl	*48*		*22 - 122*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
2-Fluorophenol (Surr)	*47*		*18 - 123*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
Nitrobenzene-d5 (Surr)	*44*		*16 - 125*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
Phenol-d5 (Surr)	*45*		*23 - 120*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
Terphenyl-d14 (Surr)	*57*		*25 - 126*	*10/07/22 10:42*	*10/08/22 06:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1

Client Sample ID: SB-01_31-33_20221005

Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2

Matrix: Solid
Percent Solids: 97.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
alpha-BHC	0.0020	U	0.0020	0.00070	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
beta-BHC	0.0020	U	0.0020	0.00077	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
delta-BHC	0.0020	U	0.0020	0.00042	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Dieldrin	0.0020	U	0.0020	0.00089	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endrin	0.0069	U	0.0069	0.00098	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00063	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:26*	*1*
DCB Decachlorobiphenyl	*43*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:26*	*1*
Tetrachloro-m-xylene	*47*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:26*	*1*
Tetrachloro-m-xylene	*42*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:26*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*
Tetrachloro-m-xylene	*88*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*
Tetrachloro-m-xylene	*87*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2340**		16.1	4.4	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Antimony	0.81	U	0.81	0.12	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Arsenic	**0.62**	**J**	0.81	0.083	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1

Client Sample ID: SB-01_31-33_20221005

Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2

Matrix: Solid
Percent Solids: 97.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	20.7		1.6	0.12	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Beryllium	0.12	J	0.32	0.046	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Cadmium	0.81	U	0.81	0.091	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Calcium	7590		80.7	14.3	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Chromium	8.0		1.6	0.73	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Cobalt	2.9		1.6	0.12	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Copper	6.8		1.6	0.30	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Iron	5240		48.4	16.3	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Lead	2.8		0.48	0.16	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Magnesium	4370		80.7	8.2	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Manganese	183		3.2	0.33	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Nickel	5.7		1.6	0.38	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Potassium	383		80.7	13.1	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Selenium	1.0	U	1.0	0.10	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Silver	0.32	U	0.32	0.072	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Sodium	117		80.7	36.9	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Thallium	0.32	U	0.32	0.033	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Vanadium	7.4		1.6	0.17	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Zinc	10.2		6.5	2.5	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0076	mg/Kg	☼	10/10/22 00:23	10/10/22 03:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.0	U	2.0	0.87	mg/Kg	☼	10/10/22 08:35	10/10/22 11:45	1
Percent Moisture (EPA Moisture)	1.8		1.0	1.0	%			10/10/22 19:01	1
Percent Solids (EPA Moisture)	98.2		1.0	1.0	%			10/10/22 19:01	1

Surrogate Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(72-145)	(75-139)	(73-139)	(80-120)
460-266752-1	SB-02_0-2_20221003	109	104	99	110
460-266752-2	SB-02_31-33_20221003	109	101	97	106
460-266752-3	SB-03_0-2_20221003	108	104	97	110
460-266752-4	SB-03_31-33_20221003	98	93	87	99
460-266752-5	SB-04_0-2_20221003	115	111	106	118
460-266752-6	SB-04_32-34_20221003	105	102	96	109
460-266752-7	SB-07_0-2_20221003	115	112	104	116
460-266752-8	SB-07_32-34_20221003	109	112	97	116
460-266826-1	SB-05_0-2_20221004	119	116	100	116
460-266826-2	SB-05_29-31_20221004	111	109	96	110
460-266826-3	SB-06_0-2_20221004	115	116	101	116
460-266826-4	SB-06_29-31_20221004	108	107	93	105
460-266877-1	SB-01_0-2_20221005	97	111	101	103
460-266877-2	SB-01_31-33_20221005	103	115	100	111
LB3 460-870066/1-A	Method Blank	83	83	79	90
LB3 460-870338/1-A	Method Blank	111	112	107	96
LB3 460-870524/1-A	Method Blank	101	118	100	111
LCS 460-870087/3	Lab Control Sample	105	106	96	115
LCS 460-870199/4	Lab Control Sample	88	84	81	95
LCS 460-870277/4	Lab Control Sample	102	103	93	111
LCS 460-870378/4	Lab Control Sample	112	114	101	95
LCS 460-870379/4	Lab Control Sample	107	104	97	114
LCS 460-870501/3	Lab Control Sample	101	100	92	111
LCS 460-870690/5	Lab Control Sample	87	98	84	96
LCS 460-870776/4	Lab Control Sample	94	109	92	103
LCSD 460-870087/4	Lab Control Sample Dup	100	101	92	109
LCSD 460-870199/6	Lab Control Sample Dup	102	100	94	111
LCSD 460-870277/5	Lab Control Sample Dup	101	100	90	107
LCSD 460-870378/5	Lab Control Sample Dup	110	113	101	96
LCSD 460-870379/5	Lab Control Sample Dup	90	93	81	98
LCSD 460-870501/5	Lab Control Sample Dup	101	107	90	114
LCSD 460-870690/6	Lab Control Sample Dup	100	112	96	108
LCSD 460-870776/5	Lab Control Sample Dup	95	110	93	102
MB 460-870087/7	Method Blank	106	101	94	106
MB 460-870199/8	Method Blank	92	86	85	92
MB 460-870277/8	Method Blank	109	103	97	109
MB 460-870378/9	Method Blank	113	115	106	97
MB 460-870379/7	Method Blank	102	99	92	103
MB 460-870501/8	Method Blank	92	103	85	104
MB 460-870690/9	Method Blank	96	112	96	104
MB 460-870776/8	Method Blank	97	112	99	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (10-123)	FBP (22-122)	2FP (18-123)	NBZ (16-125)	PHL (23-120)	TPHL (25-126)
460-266324-F-1-A MS	Matrix Spike	64	55	55	53	55	66
460-266324-F-1-B MSD	Matrix Spike Duplicate	69	60	59	57	59	70
460-266752-1	SB-02_0-2_20221003	67	84	72	74	70	87
460-266752-2	SB-02_31-33_20221003	63	82	71	70	68	88
460-266752-3	SB-03_0-2_20221003	67	83	72	73	69	85
460-266752-4	SB-03_31-33_20221003	58	80	72	70	69	82
460-266752-5	SB-04_0-2_20221003	66	81	72	71	69	84
460-266752-6	SB-04_32-34_20221003	67	81	72	70	68	85
460-266752-7	SB-07_0-2_20221003	68	81	69	71	67	81
460-266752-8	SB-07_32-34_20221003	54	80	68	69	66	84
460-266779-B-1-B MS	Matrix Spike	85	79	77	72	75	89
460-266779-B-1-C MSD	Matrix Spike Duplicate	86	78	75	70	74	85
460-266802-E-4-A MS	Matrix Spike	103	104	89	92	89	109
460-266802-E-4-B MSD	Matrix Spike Duplicate	98	97	79	85	80	104
460-266826-1	SB-05_0-2_20221004	75	80	69	71	68	86
460-266826-1 - DL	SB-05_0-2_20221004	112	94	84	85	86	101
460-266826-2	SB-05_29-31_20221004	88	85	70	74	69	91
460-266826-3	SB-06_0-2_20221004	92	89	75	79	77	98
460-266826-4	SB-06_29-31_20221004	88	92	77	80	77	97
460-266877-1	SB-01_0-2_20221005	60	55	50	49	51	64
460-266877-2	SB-01_31-33_20221005	44	48	47	44	45	57
LCS 460-870137/2-A	Lab Control Sample	87	79	73	72	73	84
LCS 460-870226/2-A	Lab Control Sample	93	96	83	88	81	102
LCS 460-870659/2-A	Lab Control Sample	117	100	91	92	93	112
LCSD 460-870137/3-A	Lab Control Sample Dup	91	81	76	74	75	86
LCSD 460-870226/3-A	Lab Control Sample Dup	97	100	87	91	85	106
LCSD 460-870659/3-A	Lab Control Sample Dup	119	101	91	91	94	115
MB 460-870137/1-A	Method Blank	85	78	70	72	71	86
MB 460-870226/1-A	Method Blank	95	97	82	88	81	105
MB 460-870659/1-A	Method Blank	73	67	63	62	62	75

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (43-150)	DCBP2 (43-150)	TCX1 (26-137)	TCX2 (26-137)
460-266735-E-8-F MS	Matrix Spike	61	63	72	72
460-266735-F-8-E MSD	Matrix Spike Duplicate	71	70	80	79
460-266752-1	SB-02_0-2_20221003	69	79	88	93
460-266752-2	SB-02_31-33_20221003	75	80	91	97
460-266752-3	SB-03_0-2_20221003	69	79	84	89
460-266752-4	SB-03_31-33_20221003	74	80	85	91

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(43-150)	(43-150)	(26-137)	(26-137)
460-266752-5	SB-04_0-2_20221003	64	74	74	83
460-266752-6	SB-04_32-34_20221003	78	82	91	95
460-266752-7	SB-07_0-2_20221003	65	75	81	89
460-266752-8	SB-07_32-34_20221003	63	66	74	80
460-266794-E-1-L MS	Matrix Spike	100	58	62	68
460-266794-E-1-M MSD	Matrix Spike Duplicate	60	54	50	57
460-266826-1	SB-05_0-2_20221004	60	57	59	68
460-266826-2	SB-05_29-31_20221004	60	74	71	80
460-266826-3	SB-06_0-2_20221004	69	64	67	73
460-266826-4	SB-06_29-31_20221004	56	66	59	65
460-266877-1	SB-01_0-2_20221005	84	70	64	70
460-266877-2	SB-01_31-33_20221005	43	60	42	47
LCS 460-870105/2-A	Lab Control Sample	63	66	70	75
LCS 460-870258/2-A	Lab Control Sample	70	72	75	79
LCS 460-870672/2-A	Lab Control Sample	88	91	95	98
LCSD 460-870105/3-A	Lab Control Sample Dup	61	65	74	77
LCSD 460-870258/3-A	Lab Control Sample Dup	70	74	78	81
LCSD 460-870672/3-A	Lab Control Sample Dup	84	89	93	98
MB 460-870105/1-A	Method Blank	74	77	77	83
MB 460-870258/1-A	Method Blank	72	74	77	85
MB 460-870672/1-A	Method Blank	80	83	41	92

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(42-150)	(42-150)
460-266735-E-8-D MS	Matrix Spike	101	96	94	93
460-266735-F-8-D MSD	Matrix Spike Duplicate	104	104	96	99
460-266752-1	SB-02_0-2_20221003	93	95	86	91
460-266752-2	SB-02_31-33_20221003	98	101	93	100
460-266752-3	SB-03_0-2_20221003	94	96	86	91
460-266752-4	SB-03_31-33_20221003	91	87	85	86
460-266752-5	SB-04_0-2_20221003	91	90	82	86
460-266752-6	SB-04_32-34_20221003	88	86	81	84
460-266752-7	SB-07_0-2_20221003	85	87	81	85
460-266752-8	SB-07_32-34_20221003	83	82	78	82
460-266794-E-1-I MS	Matrix Spike	111	113	94	90
460-266794-E-1-J MSD	Matrix Spike Duplicate	110	107	92	88
460-266826-1	SB-05_0-2_20221004	103	107	94	84
460-266826-2	SB-05_29-31_20221004	101	105	102	109
460-266826-3	SB-06_0-2_20221004	114	110	96	95
460-266826-4	SB-06_29-31_20221004	100	101	99	85
460-266877-1	SB-01_0-2_20221005	96	93	86	83
460-266877-2	SB-01_31-33_20221005	91	87	87	88
LCS 460-870100/2-A	Lab Control Sample	117	126	95	119

Surrogate Summary

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (10-150)	DCBP2 (10-150)	TCX1 (42-150)	TCX2 (42-150)
LCS 460-870255/2-A	Lab Control Sample	90	96	92	99
LCS 460-870673/2-A	Lab Control Sample	75	69	72	72
LCSD 460-870100/3-A	Lab Control Sample Dup	109	106	99	102
LCSD 460-870255/3-A	Lab Control Sample Dup	95	99	93	81
LCSD 460-870673/3-A	Lab Control Sample Dup	85	81	79	78
MB 460-870100/1-A	Method Blank	105	101	92	97
MB 460-870255/1-A	Method Blank	103	103	97	87
MB 460-870673/1-A	Method Blank	95	89	89	90

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-870066/1-A
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870066

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/04/22 13:25	10/05/22 01:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-870066/1-A
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870066

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg		10/04/22 13:25	10/05/22 01:13	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*72 - 145*	*10/04/22 13:25*	*10/05/22 01:13*	*1*
4-Bromofluorobenzene	*83*		*75 - 139*	*10/04/22 13:25*	*10/05/22 01:13*	*1*
Dibromofluoromethane (Surr)	*79*		*73 - 139*	*10/04/22 13:25*	*10/05/22 01:13*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*	*10/04/22 13:25*	*10/05/22 01:13*	*1*

Lab Sample ID: MB 460-870087/7
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/04/22 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/04/22 18:32	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/04/22 18:32	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/04/22 18:32	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/04/22 18:32	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/04/22 18:32	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/04/22 18:32	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/04/22 18:32	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/04/22 18:32	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/04/22 18:32	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/04/22 18:32	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/04/22 18:32	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/04/22 18:32	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/04/22 18:32	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/04/22 18:32	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/04/22 18:32	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/04/22 18:32	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/04/22 18:32	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/04/22 18:32	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/04/22 18:32	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870087/7
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/04/22 18:32	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/04/22 18:32	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/04/22 18:32	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/04/22 18:32	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/04/22 18:32	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/04/22 18:32	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/04/22 18:32	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/04/22 18:32	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/04/22 18:32	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/04/22 18:32	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/04/22 18:32	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/04/22 18:32	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/04/22 18:32	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/04/22 18:32	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/04/22 18:32	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/04/22 18:32	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/04/22 18:32	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/04/22 18:32	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/04/22 18:32	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/04/22 18:32	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/04/22 18:32	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/04/22 18:32	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/04/22 18:32	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/04/22 18:32	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/04/22 18:32	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/04/22 18:32	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/04/22 18:32	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/04/22 18:32	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/04/22 18:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 145*		*10/04/22 18:32*	*1*
4-Bromofluorobenzene	*101*		*75 - 139*		*10/04/22 18:32*	*1*
Dibromofluoromethane (Surr)	*94*		*73 - 139*		*10/04/22 18:32*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/04/22 18:32*	*1*

Lab Sample ID: LCS 460-870087/3
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		111	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0168		mg/Kg		84	75 - 141
1,1,2-Trichloroethane	0.0200	0.0201		mg/Kg		101	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870087/3
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0200	0.0189		mg/Kg		95	77 - 129
1,1-Dichloroethene	0.0200	0.0168		mg/Kg		84	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0186		mg/Kg		93	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0186		mg/Kg		93	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0211		mg/Kg		106	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0181		mg/Kg		90	60 - 124
1,2-Dichlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120
1,2-Dichloroethane	0.0200	0.0171		mg/Kg		86	75 - 123
1,2-Dichloropropane	0.0200	0.0197		mg/Kg		98	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0212		mg/Kg		106	79 - 120
1,3-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120
1,4-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120
2-Butanone (MEK)	0.100	0.0823		mg/Kg		82	75 - 120
2-Hexanone	0.100	0.0856		mg/Kg		86	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0869		mg/Kg		87	80 - 122
Acetone	0.100	0.0916		mg/Kg		92	63 - 131
Benzene	0.0200	0.0211		mg/Kg		106	80 - 123
Bromoform	0.0200	0.0143		mg/Kg		72	70 - 125
Bromomethane	0.0200	0.0149		mg/Kg		75	64 - 150
Carbon disulfide	0.0200	0.0166		mg/Kg		83	76 - 120
Carbon tetrachloride	0.0200	0.0153		mg/Kg		77	77 - 121
Chlorobenzene	0.0200	0.0189		mg/Kg		95	80 - 120
Chlorobromomethane	0.0200	0.0163		mg/Kg		81	76 - 127
Chlorodibromomethane	0.0200	0.0170		mg/Kg		85	80 - 120
Chloroethane	0.0200	0.0165		mg/Kg		83	68 - 132
Chloroform	0.0200	0.0181		mg/Kg		90	79 - 126
Chloromethane	0.0200	0.0175		mg/Kg		87	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0171		mg/Kg		86	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0198		mg/Kg		99	80 - 120
Cyclohexane	0.0200	0.0187		mg/Kg		93	70 - 132
Dichlorobromomethane	0.0200	0.0167		mg/Kg		84	73 - 124
Dichlorodifluoromethane	0.0200	0.0151		mg/Kg		76	62 - 150
Ethylbenzene	0.0200	0.0194		mg/Kg		97	76 - 120
Ethylene Dibromide	0.0200	0.0182		mg/Kg		91	79 - 120
Isopropylbenzene	0.0200	0.0193		mg/Kg		97	80 - 120
Methyl acetate	0.0400	0.0343		mg/Kg		86	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		82	80 - 125
Methylcyclohexane	0.0200	0.0186		mg/Kg		93	70 - 133
Methylene Chloride	0.0200	0.0170		mg/Kg		85	76 - 120
m-Xylene & p-Xylene	0.0200	0.0189		mg/Kg		95	80 - 120
n-Butylbenzene	0.0200	0.0228		mg/Kg		114	68 - 150
N-Propylbenzene	0.0200	0.0212		mg/Kg		106	78 - 130
o-Xylene	0.0200	0.0190		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0200	0.0215		mg/Kg		108	78 - 136
Styrene	0.0200	0.0184		mg/Kg		92	80 - 120
tert-Butylbenzene	0.0200	0.0201		mg/Kg		101	80 - 128
Tetrachloroethene	0.0200	0.0178		mg/Kg		89	78 - 123
Toluene	0.0200	0.0204		mg/Kg		102	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0177		mg/Kg		89	78 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870087/3
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		91	80 - 120
Trichloroethene	0.0200	0.0178		mg/Kg		89	79 - 120
Trichlorofluoromethane	0.0200	0.0156		mg/Kg		78	76 - 142
Vinyl chloride	0.0200	0.0189		mg/Kg		95	72 - 131
Xylenes, Total	0.0400	0.0379		mg/Kg		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 145*
4-Bromofluorobenzene	*106*		*75 - 139*
Dibromofluoromethane (Surr)	*96*		*73 - 139*
Toluene-d8 (Surr)	*115*		*80 - 120*

Lab Sample ID: LCSD 460-870087/4
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0165		mg/Kg		83	78 - 120	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.0225		mg/Kg		113	66 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0172		mg/Kg		86	75 - 141	2	30
1,1,2-Trichloroethane	0.0200	0.0198		mg/Kg		99	80 - 120	2	30
1,1-Dichloroethane	0.0200	0.0191		mg/Kg		95	77 - 129	1	30
1,1-Dichloroethene	0.0200	0.0170		mg/Kg		85	70 - 132	1	30
1,2,3-Trichlorobenzene	0.0200	0.0180		mg/Kg		90	44 - 120	3	30
1,2,4-Trichlorobenzene	0.0200	0.0184		mg/Kg		92	68 - 150	1	30
1,2,4-Trimethylbenzene	0.0200	0.0208		mg/Kg		104	79 - 120	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0178		mg/Kg		89	60 - 124	2	30
1,2-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120	1	30
1,2-Dichloroethane	0.0200	0.0176		mg/Kg		88	75 - 123	3	30
1,2-Dichloropropane	0.0200	0.0195		mg/Kg		98	73 - 124	1	30
1,3,5-Trimethylbenzene	0.0200	0.0205		mg/Kg		103	79 - 120	3	30
1,3-Dichlorobenzene	0.0200	0.0189		mg/Kg		94	80 - 120	1	30
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		92	80 - 120	2	30
2-Butanone (MEK)	0.100	0.0804		mg/Kg		80	75 - 120	2	30
2-Hexanone	0.100	0.0824		mg/Kg		82	70 - 128	4	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0842		mg/Kg		84	80 - 122	3	30
Acetone	0.100	0.0894		mg/Kg		89	63 - 131	2	30
Benzene	0.0200	0.0212		mg/Kg		106	80 - 123	0	30
Bromoform	0.0200	0.0147		mg/Kg		73	70 - 125	2	30
Bromomethane	0.0200	0.0154		mg/Kg		77	64 - 150	3	30
Carbon disulfide	0.0200	0.0168		mg/Kg		84	76 - 120	1	30
Carbon tetrachloride	0.0200	0.0161		mg/Kg		80	77 - 121	5	30
Chlorobenzene	0.0200	0.0187		mg/Kg		93	80 - 120	1	30
Chlorobromomethane	0.0200	0.0166		mg/Kg		83	76 - 127	2	30
Chlorodibromomethane	0.0200	0.0167		mg/Kg		83	80 - 120	2	30
Chloroethane	0.0200	0.0170		mg/Kg		85	68 - 132	3	30
Chloroform	0.0200	0.0179		mg/Kg		89	79 - 126	1	30
Chloromethane	0.0200	0.0192		mg/Kg		96	63 - 130	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870087/4
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			0.0200	0.0168		mg/Kg		84	80 - 123	2	30
cis-1,3-Dichloropropene			0.0200	0.0196		mg/Kg		98	80 - 120	1	30
Cyclohexane			0.0200	0.0191		mg/Kg		95	70 - 132	2	30
Dichlorobromomethane			0.0200	0.0168		mg/Kg		84	73 - 124	0	30
Dichlorodifluoromethane			0.0200	0.0179		mg/Kg		90	62 - 150	17	30
Ethylbenzene			0.0200	0.0191		mg/Kg		95	76 - 120	2	30
Ethylene Dibromide			0.0200	0.0179		mg/Kg		90	79 - 120	1	30
Isopropylbenzene			0.0200	0.0192		mg/Kg		96	80 - 120	1	30
Methyl acetate			0.0400	0.0406		mg/Kg		101	58 - 143	17	30
Methyl tert-butyl ether			0.0200	0.0167		mg/Kg		83	80 - 125	1	30
Methylcyclohexane			0.0200	0.0185		mg/Kg		93	70 - 133	1	30
Methylene Chloride			0.0200	0.0168		mg/Kg		84	76 - 120	1	30
m-Xylene & p-Xylene			0.0200	0.0188		mg/Kg		94	80 - 120	0	30
n-Butylbenzene			0.0200	0.0218		mg/Kg		109	68 - 150	5	30
N-Propylbenzene			0.0200	0.0205		mg/Kg		102	78 - 130	3	30
o-Xylene			0.0200	0.0191		mg/Kg		96	80 - 120	1	30
sec-Butylbenzene			0.0200	0.0210		mg/Kg		105	78 - 136	3	30
Styrene			0.0200	0.0179		mg/Kg		89	80 - 120	3	30
tert-Butylbenzene			0.0200	0.0196		mg/Kg		98	80 - 128	3	30
Tetrachloroethene			0.0200	0.0176		mg/Kg		88	78 - 123	1	30
Toluene			0.0200	0.0201		mg/Kg		101	80 - 120	1	30
trans-1,2-Dichloroethene			0.0200	0.0176		mg/Kg		88	78 - 120	1	30
trans-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		89	80 - 120	3	30
Trichloroethene			0.0200	0.0175		mg/Kg		87	79 - 120	2	30
Trichlorofluoromethane			0.0200	0.0167		mg/Kg		83	76 - 142	7	30
Vinyl chloride			0.0200	0.0197		mg/Kg		98	72 - 131	4	30
Xylenes, Total			0.0400	0.0380		mg/Kg		95	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 145*
4-Bromofluorobenzene	*101*		*75 - 139*
Dibromofluoromethane (Surr)	*92*		*73 - 139*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: MB 460-870199/8
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 11:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 11:02	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 11:02	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 11:02	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 11:02	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870199/8
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/05/22 11:02	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 11:02	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 11:02	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/05/22 11:02	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 11:02	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/05/22 11:02	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/05/22 11:02	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/05/22 11:02	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/05/22 11:02	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/05/22 11:02	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 11:02	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/05/22 11:02	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/05/22 11:02	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 11:02	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/05/22 11:02	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 11:02	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 11:02	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/05/22 11:02	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/05/22 11:02	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/05/22 11:02	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 11:02	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 11:02	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/05/22 11:02	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 11:02	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/05/22 11:02	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/05/22 11:02	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 11:02	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/05/22 11:02	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/05/22 11:02	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/05/22 11:02	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/05/22 11:02	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/05/22 11:02	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 11:02	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 11:02	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 11:02	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 11:02	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 11:02	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 11:02	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 11:02	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 11:02	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/05/22 11:02	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/05/22 11:02	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/05/22 11:02	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/05/22 11:02	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		72 - 145		10/05/22 11:02	1
4-Bromofluorobenzene	86		75 - 139		10/05/22 11:02	1
Dibromofluoromethane (Surr)	85		73 - 139		10/05/22 11:02	1
Toluene-d8 (Surr)	92		80 - 120		10/05/22 11:02	1

Lab Sample ID: LCS 460-870199/4
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		112	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0179		mg/Kg		89	75 - 141
1,1,2-Trichloroethane	0.0200	0.0211		mg/Kg		105	80 - 120
1,1-Dichloroethane	0.0200	0.0193		mg/Kg		96	77 - 129
1,1-Dichloroethene	0.0200	0.0176		mg/Kg		88	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0168		mg/Kg		84	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0160		mg/Kg		80	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0190		mg/Kg		95	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0164		mg/Kg		82	60 - 124
1,2-Dichlorobenzene	0.0200	0.0179		mg/Kg		90	80 - 120
1,2-Dichloroethane	0.0200	0.0179		mg/Kg		89	75 - 123
1,2-Dichloropropane	0.0200	0.0203		mg/Kg		102	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0193		mg/Kg		96	79 - 120
1,3-Dichlorobenzene	0.0200	0.0181		mg/Kg		91	80 - 120
1,4-Dichlorobenzene	0.0200	0.0176		mg/Kg		88	80 - 120
2-Butanone (MEK)	0.100	0.0765		mg/Kg		77	75 - 120
2-Hexanone	0.100	0.0820		mg/Kg		82	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0830		mg/Kg		83	80 - 122
Acetone	0.100	0.0913		mg/Kg		91	63 - 131
Benzene	0.0200	0.0213		mg/Kg		106	80 - 123
Bromoform	0.0200	0.0145		mg/Kg		73	70 - 125
Bromomethane	0.0200	0.0167		mg/Kg		84	64 - 150
Carbon disulfide	0.0200	0.0179		mg/Kg		89	76 - 120
Carbon tetrachloride	0.0200	0.0158		mg/Kg		79	77 - 121
Chlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120
Chlorobromomethane	0.0200	0.0160		mg/Kg		80	76 - 127
Chlorodibromomethane	0.0200	0.0165		mg/Kg		82	80 - 120
Chloroethane	0.0200	0.0199		mg/Kg		99	68 - 132
Chloroform	0.0200	0.0178		mg/Kg		89	79 - 126
Chloromethane	0.0200	0.0206		mg/Kg		103	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0175		mg/Kg		87	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0193		mg/Kg		97	80 - 120
Cyclohexane	0.0200	0.0184		mg/Kg		92	70 - 132
Dichlorobromomethane	0.0200	0.0170		mg/Kg		85	73 - 124
Dichlorodifluoromethane	0.0200	0.0187		mg/Kg		93	62 - 150
Ethylbenzene	0.0200	0.0187		mg/Kg		94	76 - 120
Ethylene Dibromide	0.0200	0.0181		mg/Kg		90	79 - 120
Isopropylbenzene	0.0200	0.0187		mg/Kg		93	80 - 120
Methyl acetate	0.0400	0.0445		mg/Kg		111	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		82	80 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870199/4
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylcyclohexane			0.0200	0.0174		mg/Kg		87	70 - 133		
Methylene Chloride			0.0200	0.0181		mg/Kg		91	76 - 120		
m-Xylene & p-Xylene			0.0200	0.0184		mg/Kg		92	80 - 120		
n-Butylbenzene			0.0200	0.0202		mg/Kg		101	68 - 150		
N-Propylbenzene			0.0200	0.0191		mg/Kg		96	78 - 130		
o-Xylene			0.0200	0.0180		mg/Kg		90	80 - 120		
sec-Butylbenzene			0.0200	0.0188		mg/Kg		94	78 - 136		
Styrene			0.0200	0.0179		mg/Kg		90	80 - 120		
tert-Butylbenzene			0.0200	0.0182		mg/Kg		91	80 - 128		
Tetrachloroethene			0.0200	0.0179		mg/Kg		89	78 - 123		
Toluene			0.0200	0.0198		mg/Kg		99	80 - 120		
trans-1,2-Dichloroethene			0.0200	0.0178		mg/Kg		89	78 - 120		
trans-1,3-Dichloropropene			0.0200	0.0180		mg/Kg		90	80 - 120		
Trichloroethene			0.0200	0.0177		mg/Kg		88	79 - 120		
Trichlorofluoromethane			0.0200	0.0182		mg/Kg		91	76 - 142		
Vinyl chloride			0.0200	0.0213		mg/Kg		106	72 - 131		
Xylenes, Total			0.0400	0.0364		mg/Kg		91	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 145*
4-Bromofluorobenzene	*84*		*75 - 139*
Dibromofluoromethane (Surr)	*81*		*73 - 139*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 460-870199/6
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0177		mg/Kg		88	78 - 120	5	30
1,1,2,2-Tetrachloroethane			0.0200	0.0237		mg/Kg		119	66 - 123	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0192		mg/Kg		96	75 - 141	7	30
1,1,2-Trichloroethane			0.0200	0.0212		mg/Kg		106	80 - 120	0	30
1,1-Dichloroethane			0.0200	0.0203		mg/Kg		101	77 - 129	5	30
1,1-Dichloroethene			0.0200	0.0191		mg/Kg		96	70 - 132	8	30
1,2,3-Trichlorobenzene			0.0200	0.0181		mg/Kg		91	44 - 120	8	30
1,2,4-Trichlorobenzene			0.0200	0.0184		mg/Kg		92	68 - 150	14	30
1,2,4-Trimethylbenzene			0.0200	0.0207		mg/Kg		103	79 - 120	8	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0173		mg/Kg		87	60 - 124	5	30
1,2-Dichlorobenzene			0.0200	0.0197		mg/Kg		99	80 - 120	10	30
1,2-Dichloroethane			0.0200	0.0188		mg/Kg		94	75 - 123	5	30
1,2-Dichloropropane			0.0200	0.0211		mg/Kg		106	73 - 124	4	30
1,3,5-Trimethylbenzene			0.0200	0.0210		mg/Kg		105	79 - 120	8	30
1,3-Dichlorobenzene			0.0200	0.0191		mg/Kg		96	80 - 120	5	30
1,4-Dichlorobenzene			0.0200	0.0190		mg/Kg		95	80 - 120	8	30
2-Butanone (MEK)			0.100	0.0812		mg/Kg		81	75 - 120	6	30
2-Hexanone			0.100	0.0840		mg/Kg		84	70 - 128	2	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0862		mg/Kg		86	80 - 122	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870199/6
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			0.100	0.0952		mg/Kg		95	63 - 131	4	30
Benzene			0.0200	0.0226		mg/Kg		113	80 - 123	6	30
Bromoform			0.0200	0.0148		mg/Kg		74	70 - 125	2	30
Bromomethane			0.0200	0.0166		mg/Kg		83	64 - 150	1	30
Carbon disulfide			0.0200	0.0190		mg/Kg		95	76 - 120	6	30
Carbon tetrachloride			0.0200	0.0169		mg/Kg		84	77 - 121	7	30
Chlorobenzene			0.0200	0.0196		mg/Kg		98	80 - 120	4	30
Chlorobromomethane			0.0200	0.0172		mg/Kg		86	76 - 127	8	30
Chlorodibromomethane			0.0200	0.0178		mg/Kg		89	80 - 120	8	30
Chloroethane			0.0200	0.0185		mg/Kg		93	68 - 132	7	30
Chloroform			0.0200	0.0192		mg/Kg		96	79 - 126	8	30
Chloromethane			0.0200	0.0199		mg/Kg		100	63 - 130	3	30
cis-1,2-Dichloroethene			0.0200	0.0184		mg/Kg		92	80 - 123	5	30
cis-1,3-Dichloropropene			0.0200	0.0202		mg/Kg		101	80 - 120	5	30
Cyclohexane			0.0200	0.0197		mg/Kg		99	70 - 132	7	30
Dichlorobromomethane			0.0200	0.0181		mg/Kg		90	73 - 124	6	30
Dichlorodifluoromethane			0.0200	0.0179		mg/Kg		89	62 - 150	4	30
Ethylbenzene			0.0200	0.0200		mg/Kg		100	76 - 120	7	30
Ethylene Dibromide			0.0200	0.0188		mg/Kg		94	79 - 120	4	30
Isopropylbenzene			0.0200	0.0202		mg/Kg		101	80 - 120	8	30
Methyl acetate			0.0400	0.0478		mg/Kg		119	58 - 143	7	30
Methyl tert-butyl ether			0.0200	0.0176		mg/Kg		88	80 - 125	7	30
Methylcyclohexane			0.0200	0.0196		mg/Kg		98	70 - 133	12	30
Methylene Chloride			0.0200	0.0193		mg/Kg		97	76 - 120	7	30
m-Xylene & p-Xylene			0.0200	0.0194		mg/Kg		97	80 - 120	5	30
n-Butylbenzene			0.0200	0.0224		mg/Kg		112	68 - 150	10	30
N-Propylbenzene			0.0200	0.0211		mg/Kg		105	78 - 130	10	30
o-Xylene			0.0200	0.0192		mg/Kg		96	80 - 120	6	30
sec-Butylbenzene			0.0200	0.0212		mg/Kg		106	78 - 136	12	30
Styrene			0.0200	0.0187		mg/Kg		94	80 - 120	4	30
tert-Butylbenzene			0.0200	0.0199		mg/Kg		100	80 - 128	9	30
Tetrachloroethene			0.0200	0.0189		mg/Kg		94	78 - 123	5	30
Toluene			0.0200	0.0209		mg/Kg		104	80 - 120	5	30
trans-1,2-Dichloroethene			0.0200	0.0188		mg/Kg		94	78 - 120	6	30
trans-1,3-Dichloropropene			0.0200	0.0183		mg/Kg		91	80 - 120	2	30
Trichloroethene			0.0200	0.0188		mg/Kg		94	79 - 120	6	30
Trichlorofluoromethane			0.0200	0.0175		mg/Kg		87	76 - 142	4	30
Vinyl chloride			0.0200	0.0195		mg/Kg		98	72 - 131	9	30
Xylenes, Total			0.0400	0.0386		mg/Kg		97	80 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*
4-Bromofluorobenzene	*100*		*75 - 139*
Dibromofluoromethane (Surr)	*94*		*73 - 139*
Toluene-d8 (Surr)	*111*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870277/8
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 22:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 22:16	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 22:16	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 22:16	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 22:16	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/05/22 22:16	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 22:16	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 22:16	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/05/22 22:16	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 22:16	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/05/22 22:16	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/05/22 22:16	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/05/22 22:16	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/05/22 22:16	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/05/22 22:16	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 22:16	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/05/22 22:16	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/05/22 22:16	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 22:16	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/05/22 22:16	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 22:16	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 22:16	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/05/22 22:16	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/05/22 22:16	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/05/22 22:16	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 22:16	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 22:16	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/05/22 22:16	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 22:16	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/05/22 22:16	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/05/22 22:16	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 22:16	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/05/22 22:16	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/05/22 22:16	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/05/22 22:16	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/05/22 22:16	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/05/22 22:16	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 22:16	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 22:16	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 22:16	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870277/8
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 22:16	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 22:16	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 22:16	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 22:16	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 22:16	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/05/22 22:16	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/05/22 22:16	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/05/22 22:16	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/05/22 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*		*10/05/22 22:16*	*1*
4-Bromofluorobenzene	*103*		*75 - 139*		*10/05/22 22:16*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*		*10/05/22 22:16*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/05/22 22:16*	*1*

Lab Sample ID: LCS 460-870277/4
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0214		mg/Kg		107	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0162		mg/Kg		81	75 - 141
1,1,2-Trichloroethane	0.0200	0.0202		mg/Kg		101	80 - 120
1,1-Dichloroethane	0.0200	0.0192		mg/Kg		96	77 - 129
1,1-Dichloroethene	0.0200	0.0165		mg/Kg		83	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0174		mg/Kg		87	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0167		mg/Kg		83	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0193		mg/Kg		97	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0166		mg/Kg		83	60 - 124
1,2-Dichlorobenzene	0.0200	0.0186		mg/Kg		93	80 - 120
1,2-Dichloroethane	0.0200	0.0180		mg/Kg		90	75 - 123
1,2-Dichloropropane	0.0200	0.0198		mg/Kg		99	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0196		mg/Kg		98	79 - 120
1,3-Dichlorobenzene	0.0200	0.0178		mg/Kg		89	80 - 120
1,4-Dichlorobenzene	0.0200	0.0181		mg/Kg		90	80 - 120
2-Butanone (MEK)	0.100	0.0759		mg/Kg		76	75 - 120
2-Hexanone	0.100	0.0809		mg/Kg		81	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0821		mg/Kg		82	80 - 122
Acetone	0.100	0.0781		mg/Kg		78	63 - 131
Benzene	0.0200	0.0213		mg/Kg		106	80 - 123
Bromoform	0.0200	0.0143		mg/Kg		72	70 - 125
Bromomethane	0.0200	0.0163		mg/Kg		81	64 - 150
Carbon disulfide	0.0200	0.0159		mg/Kg		79	76 - 120
Carbon tetrachloride	0.0200	0.0150	*	mg/Kg		75	77 - 121
Chlorobenzene	0.0200	0.0186		mg/Kg		93	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870277/4
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	0.0200	0.0163		mg/Kg		81	76 - 127
Chlorodibromomethane	0.0200	0.0168		mg/Kg		84	80 - 120
Chloroethane	0.0200	0.0187		mg/Kg		93	68 - 132
Chloroform	0.0200	0.0183		mg/Kg		92	79 - 126
Chloromethane	0.0200	0.0194		mg/Kg		97	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0170		mg/Kg		85	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0195		mg/Kg		98	80 - 120
Cyclohexane	0.0200	0.0182		mg/Kg		91	70 - 132
Dichlorobromomethane	0.0200	0.0172		mg/Kg		86	73 - 124
Dichlorodifluoromethane	0.0200	0.0162		mg/Kg		81	62 - 150
Ethylbenzene	0.0200	0.0187		mg/Kg		93	76 - 120
Ethylene Dibromide	0.0200	0.0178		mg/Kg		89	79 - 120
Isopropylbenzene	0.0200	0.0186		mg/Kg		93	80 - 120
Methyl acetate	0.0400	0.0354		mg/Kg		88	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		83	80 - 125
Methylcyclohexane	0.0200	0.0183		mg/Kg		92	70 - 133
Methylene Chloride	0.0200	0.0173		mg/Kg		86	76 - 120
m-Xylene & p-Xylene	0.0200	0.0183		mg/Kg		92	80 - 120
n-Butylbenzene	0.0200	0.0206		mg/Kg		103	68 - 150
N-Propylbenzene	0.0200	0.0199		mg/Kg		100	78 - 130
o-Xylene	0.0200	0.0182		mg/Kg		91	80 - 120
sec-Butylbenzene	0.0200	0.0199		mg/Kg		99	78 - 136
Styrene	0.0200	0.0180		mg/Kg		90	80 - 120
tert-Butylbenzene	0.0200	0.0194		mg/Kg		97	80 - 128
Tetrachloroethene	0.0200	0.0179		mg/Kg		89	78 - 123
Toluene	0.0200	0.0201		mg/Kg		101	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0181		mg/Kg		91	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0180		mg/Kg		90	80 - 120
Trichloroethene	0.0200	0.0179		mg/Kg		89	79 - 120
Trichlorofluoromethane	0.0200	0.0172		mg/Kg		86	76 - 142
Vinyl chloride	0.0200	0.0196		mg/Kg		98	72 - 131
Xylenes, Total	0.0400	0.0365		mg/Kg		91	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*
4-Bromofluorobenzene	*103*		*75 - 139*
Dibromofluoromethane (Surr)	*93*		*73 - 139*
Toluene-d8 (Surr)	*111*		*80 - 120*

Lab Sample ID: LCSD 460-870277/5
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0163		mg/Kg		81	78 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0200	0.0232		mg/Kg		116	66 - 123	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0168		mg/Kg		84	75 - 141	3	30
1,1,2-Trichloroethane	0.0200	0.0206		mg/Kg		103	80 - 120	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870277/5
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0200	0.0197		mg/Kg		98	77 - 129	2	30
1,1-Dichloroethene	0.0200	0.0171		mg/Kg		86	70 - 132	4	30
1,2,3-Trichlorobenzene	0.0200	0.0148		mg/Kg		74	44 - 120	16	30
1,2,4-Trichlorobenzene	0.0200	0.0138		mg/Kg		69	68 - 150	19	30
1,2,4-Trimethylbenzene	0.0200	0.0172		mg/Kg		86	79 - 120	12	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0177		mg/Kg		89	60 - 124	6	30
1,2-Dichlorobenzene	0.0200	0.0174		mg/Kg		87	80 - 120	6	30
1,2-Dichloroethane	0.0200	0.0184		mg/Kg		92	75 - 123	2	30
1,2-Dichloropropane	0.0200	0.0202		mg/Kg		101	73 - 124	2	30
1,3,5-Trimethylbenzene	0.0200	0.0169		mg/Kg		85	79 - 120	15	30
1,3-Dichlorobenzene	0.0200	0.0169		mg/Kg		85	80 - 120	5	30
1,4-Dichlorobenzene	0.0200	0.0170		mg/Kg		85	80 - 120	6	30
2-Butanone (MEK)	0.100	0.0795		mg/Kg		79	75 - 120	5	30
2-Hexanone	0.100	0.0833		mg/Kg		83	70 - 128	3	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0844		mg/Kg		84	80 - 122	3	30
Acetone	0.100	0.0950		mg/Kg		95	63 - 131	20	30
Benzene	0.0200	0.0210		mg/Kg		105	80 - 123	1	30
Bromoform	0.0200	0.0146		mg/Kg		73	70 - 125	2	30
Bromomethane	0.0200	0.0165		mg/Kg		83	64 - 150	2	30
Carbon disulfide	0.0200	0.0174		mg/Kg		87	76 - 120	9	30
Carbon tetrachloride	0.0200	0.0152	*	mg/Kg		76	77 - 121	2	30
Chlorobenzene	0.0200	0.0184		mg/Kg		92	80 - 120	1	30
Chlorobromomethane	0.0200	0.0169		mg/Kg		84	76 - 127	3	30
Chlorodibromomethane	0.0200	0.0163		mg/Kg		82	80 - 120	3	30
Chloroethane	0.0200	0.0188		mg/Kg		94	68 - 132	1	30
Chloroform	0.0200	0.0184		mg/Kg		92	79 - 126	0	30
Chloromethane	0.0200	0.0201		mg/Kg		100	63 - 130	4	30
cis-1,2-Dichloroethene	0.0200	0.0175		mg/Kg		87	80 - 123	3	30
cis-1,3-Dichloropropene	0.0200	0.0197		mg/Kg		99	80 - 120	1	30
Cyclohexane	0.0200	0.0166		mg/Kg		83	70 - 132	9	30
Dichlorobromomethane	0.0200	0.0174		mg/Kg		87	73 - 124	1	30
Dichlorodifluoromethane	0.0200	0.0166		mg/Kg		83	62 - 150	2	30
Ethylbenzene	0.0200	0.0174		mg/Kg		87	76 - 120	7	30
Ethylene Dibromide	0.0200	0.0180		mg/Kg		90	79 - 120	1	30
Isopropylbenzene	0.0200	0.0162		mg/Kg		81	80 - 120	13	30
Methyl acetate	0.0400	0.0464		mg/Kg		116	58 - 143	27	30
Methyl tert-butyl ether	0.0200	0.0182		mg/Kg		91	80 - 125	10	30
Methylcyclohexane	0.0200	0.0142		mg/Kg		71	70 - 133	25	30
Methylene Chloride	0.0200	0.0183		mg/Kg		91	76 - 120	5	30
m-Xylene & p-Xylene	0.0200	0.0173		mg/Kg		86	80 - 120	6	30
n-Butylbenzene	0.0200	0.0159		mg/Kg		79	68 - 150	26	30
N-Propylbenzene	0.0200	0.0172		mg/Kg		86	78 - 130	15	30
o-Xylene	0.0200	0.0173		mg/Kg		86	80 - 120	5	30
sec-Butylbenzene	0.0200	0.0155	*	mg/Kg		77	78 - 136	25	30
Styrene	0.0200	0.0174		mg/Kg		87	80 - 120	3	30
tert-Butylbenzene	0.0200	0.0150	*	mg/Kg		75	80 - 128	26	30
Tetrachloroethene	0.0200	0.0156		mg/Kg		78	78 - 123	13	30
Toluene	0.0200	0.0196		mg/Kg		98	80 - 120	3	30
trans-1,2-Dichloroethene	0.0200	0.0178		mg/Kg		89	78 - 120	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870277/5
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			0.0200	0.0181		mg/Kg		91	80 - 120	1	30
Trichloroethene			0.0200	0.0177		mg/Kg		88	79 - 120	1	30
Trichlorofluoromethane			0.0200	0.0176		mg/Kg		88	76 - 142	2	30
Vinyl chloride			0.0200	0.0201		mg/Kg		100	72 - 131	2	30
Xylenes, Total			0.0400	0.0346		mg/Kg		86	80 - 120	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 145*
4-Bromofluorobenzene	*100*		*75 - 139*
Dibromofluoromethane (Surr)	*90*		*73 - 139*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LB3 460-870338/1-A
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870338

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg		10/05/22 19:31	10/06/22 08:00	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-870338/1-A
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870338

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg		10/05/22 19:31	10/06/22 08:00	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 145*	*10/05/22 19:31*	*10/06/22 08:00*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*	*10/05/22 19:31*	*10/06/22 08:00*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 139*	*10/05/22 19:31*	*10/06/22 08:00*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*10/05/22 19:31*	*10/06/22 08:00*	*1*

Lab Sample ID: MB 460-870378/9
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 07:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 07:37	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 07:37	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 07:37	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 07:37	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870378/9
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/06/22 07:37	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 07:37	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 07:37	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/06/22 07:37	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 07:37	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/06/22 07:37	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/06/22 07:37	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/06/22 07:37	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/06/22 07:37	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/06/22 07:37	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 07:37	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/06/22 07:37	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/06/22 07:37	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 07:37	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/06/22 07:37	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 07:37	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 07:37	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/06/22 07:37	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/06/22 07:37	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/06/22 07:37	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 07:37	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 07:37	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/06/22 07:37	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 07:37	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/06/22 07:37	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/06/22 07:37	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 07:37	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/06/22 07:37	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/06/22 07:37	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/06/22 07:37	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/06/22 07:37	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/06/22 07:37	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 07:37	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 07:37	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 07:37	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 07:37	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 07:37	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 07:37	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 07:37	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 07:37	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/06/22 07:37	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/06/22 07:37	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/06/22 07:37	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/06/22 07:37	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		72 - 145		10/06/22 07:37	1
4-Bromofluorobenzene	115		75 - 139		10/06/22 07:37	1
Dibromofluoromethane (Surr)	106		73 - 139		10/06/22 07:37	1
Toluene-d8 (Surr)	97		80 - 120		10/06/22 07:37	1

Lab Sample ID: LCS 460-870378/4
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0220		mg/Kg		110	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0211		mg/Kg		105	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0235		mg/Kg		117	75 - 141
1,1,2-Trichloroethane	0.0200	0.0197		mg/Kg		99	80 - 120
1,1-Dichloroethane	0.0200	0.0227		mg/Kg		114	77 - 129
1,1-Dichloroethene	0.0200	0.0230		mg/Kg		115	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0197		mg/Kg		99	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0198		mg/Kg		99	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0195		mg/Kg		97	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0200		mg/Kg		100	60 - 124
1,2-Dichlorobenzene	0.0200	0.0201		mg/Kg		100	80 - 120
1,2-Dichloroethane	0.0200	0.0241		mg/Kg		121	75 - 123
1,2-Dichloropropane	0.0200	0.0207		mg/Kg		103	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0195		mg/Kg		97	79 - 120
1,3-Dichlorobenzene	0.0200	0.0208		mg/Kg		104	80 - 120
1,4-Dichlorobenzene	0.0200	0.0205		mg/Kg		102	80 - 120
2-Butanone (MEK)	0.100	0.0858		mg/Kg		86	75 - 120
2-Hexanone	0.100	0.0997		mg/Kg		100	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0998		mg/Kg		100	80 - 122
Acetone	0.100	0.103		mg/Kg		103	63 - 131
Benzene	0.0200	0.0207		mg/Kg		103	80 - 123
Bromoform	0.0200	0.0199		mg/Kg		99	70 - 125
Bromomethane	0.0200	0.0167		mg/Kg		84	64 - 150
Carbon disulfide	0.0200	0.0239		mg/Kg		119	76 - 120
Carbon tetrachloride	0.0200	0.0216		mg/Kg		108	77 - 121
Chlorobenzene	0.0200	0.0200		mg/Kg		100	80 - 120
Chlorobromomethane	0.0200	0.0214		mg/Kg		107	76 - 127
Chlorodibromomethane	0.0200	0.0195		mg/Kg		98	80 - 120
Chloroethane	0.0200	0.0222		mg/Kg		111	68 - 132
Chloroform	0.0200	0.0215		mg/Kg		107	79 - 126
Chloromethane	0.0200	0.0204		mg/Kg		102	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0208		mg/Kg		104	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0202		mg/Kg		101	80 - 120
Cyclohexane	0.0200	0.0216		mg/Kg		108	70 - 132
Dichlorobromomethane	0.0200	0.0209		mg/Kg		105	73 - 124
Dichlorodifluoromethane	0.0200	0.0203		mg/Kg		102	62 - 150
Ethylbenzene	0.0200	0.0200		mg/Kg		100	76 - 120
Ethylene Dibromide	0.0200	0.0201		mg/Kg		100	79 - 120
Isopropylbenzene	0.0200	0.0200		mg/Kg		100	80 - 120
Methyl acetate	0.0400	0.0565		mg/Kg		141	58 - 143
Methyl tert-butyl ether	0.0200	0.0228		mg/Kg		114	80 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870378/4
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylcyclohexane	0.0200	0.0207		mg/Kg		103	70 - 133
Methylene Chloride	0.0200	0.0218		mg/Kg		109	76 - 120
m-Xylene & p-Xylene	0.0200	0.0194		mg/Kg		97	80 - 120
n-Butylbenzene	0.0200	0.0208		mg/Kg		104	68 - 150
N-Propylbenzene	0.0200	0.0212		mg/Kg		106	78 - 130
o-Xylene	0.0200	0.0195		mg/Kg		98	80 - 120
sec-Butylbenzene	0.0200	0.0205		mg/Kg		102	78 - 136
Styrene	0.0200	0.0197		mg/Kg		99	80 - 120
tert-Butylbenzene	0.0200	0.0203		mg/Kg		102	80 - 128
Tetrachloroethene	0.0200	0.0211		mg/Kg		105	78 - 123
Toluene	0.0200	0.0199		mg/Kg		99	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0226		mg/Kg		113	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0204		mg/Kg		102	80 - 120
Trichloroethene	0.0200	0.0202		mg/Kg		101	79 - 120
Trichlorofluoromethane	0.0200	0.0228		mg/Kg		114	76 - 142
Vinyl chloride	0.0200	0.0227		mg/Kg		113	72 - 131
Xylenes, Total	0.0400	0.0390		mg/Kg		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 145*
4-Bromofluorobenzene	*114*		*75 - 139*
Dibromofluoromethane (Surr)	*101*		*73 - 139*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 460-870378/5
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0214		mg/Kg		107	78 - 120	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.0197		mg/Kg		98	66 - 123	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0232		mg/Kg		116	75 - 141	1	30
1,1,2-Trichloroethane	0.0200	0.0192		mg/Kg		96	80 - 120	3	30
1,1-Dichloroethane	0.0200	0.0221		mg/Kg		110	77 - 129	3	30
1,1-Dichloroethene	0.0200	0.0225		mg/Kg		113	70 - 132	2	30
1,2,3-Trichlorobenzene	0.0200	0.0195		mg/Kg		97	44 - 120	1	30
1,2,4-Trichlorobenzene	0.0200	0.0196		mg/Kg		98	68 - 150	1	30
1,2,4-Trimethylbenzene	0.0200	0.0190		mg/Kg		95	79 - 120	3	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0183		mg/Kg		91	60 - 124	9	30
1,2-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120	4	30
1,2-Dichloroethane	0.0200	0.0230		mg/Kg		115	75 - 123	5	30
1,2-Dichloropropane	0.0200	0.0199		mg/Kg		99	73 - 124	4	30
1,3,5-Trimethylbenzene	0.0200	0.0188		mg/Kg		94	79 - 120	4	30
1,3-Dichlorobenzene	0.0200	0.0202		mg/Kg		101	80 - 120	3	30
1,4-Dichlorobenzene	0.0200	0.0201		mg/Kg		100	80 - 120	2	30
2-Butanone (MEK)	0.100	0.0806		mg/Kg		81	75 - 120	6	30
2-Hexanone	0.100	0.0988		mg/Kg		99	70 - 128	1	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0994		mg/Kg		99	80 - 122	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870378/5
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			0.100	0.0992		mg/Kg		99	63 - 131	3	30
Benzene			0.0200	0.0199		mg/Kg		100	80 - 123	4	30
Bromoform			0.0200	0.0191		mg/Kg		95	70 - 125	4	30
Bromomethane			0.0200	0.0159		mg/Kg		80	64 - 150	5	30
Carbon disulfide			0.0200	0.0229		mg/Kg		114	76 - 120	4	30
Carbon tetrachloride			0.0200	0.0208		mg/Kg		104	77 - 121	4	30
Chlorobenzene			0.0200	0.0192		mg/Kg		96	80 - 120	4	30
Chlorobromomethane			0.0200	0.0199		mg/Kg		100	76 - 127	7	30
Chlorodibromomethane			0.0200	0.0189		mg/Kg		95	80 - 120	3	30
Chloroethane			0.0200	0.0221		mg/Kg		110	68 - 132	1	30
Chloroform			0.0200	0.0208		mg/Kg		104	79 - 126	3	30
Chloromethane			0.0200	0.0197		mg/Kg		99	63 - 130	3	30
cis-1,2-Dichloroethene			0.0200	0.0203		mg/Kg		101	80 - 123	3	30
cis-1,3-Dichloropropene			0.0200	0.0194		mg/Kg		97	80 - 120	4	30
Cyclohexane			0.0200	0.0211		mg/Kg		106	70 - 132	2	30
Dichlorobromomethane			0.0200	0.0204		mg/Kg		102	73 - 124	3	30
Dichlorodifluoromethane			0.0200	0.0188		mg/Kg		94	62 - 150	8	30
Ethylbenzene			0.0200	0.0192		mg/Kg		96	76 - 120	4	30
Ethylene Dibromide			0.0200	0.0193		mg/Kg		96	79 - 120	4	30
Isopropylbenzene			0.0200	0.0193		mg/Kg		96	80 - 120	4	30
Methyl acetate			0.0400	0.0520		mg/Kg		130	58 - 143	8	30
Methyl tert-butyl ether			0.0200	0.0222		mg/Kg		111	80 - 125	3	30
Methylcyclohexane			0.0200	0.0203		mg/Kg		102	70 - 133	2	30
Methylene Chloride			0.0200	0.0210		mg/Kg		105	76 - 120	4	30
m-Xylene & p-Xylene			0.0200	0.0188		mg/Kg		94	80 - 120	3	30
n-Butylbenzene			0.0200	0.0202		mg/Kg		101	68 - 150	3	30
N-Propylbenzene			0.0200	0.0204		mg/Kg		102	78 - 130	4	30
o-Xylene			0.0200	0.0192		mg/Kg		96	80 - 120	2	30
sec-Butylbenzene			0.0200	0.0197		mg/Kg		99	78 - 136	4	30
Styrene			0.0200	0.0192		mg/Kg		96	80 - 120	3	30
tert-Butylbenzene			0.0200	0.0195		mg/Kg		97	80 - 128	4	30
Tetrachloroethene			0.0200	0.0206		mg/Kg		103	78 - 123	2	30
Toluene			0.0200	0.0192		mg/Kg		96	80 - 120	3	30
trans-1,2-Dichloroethene			0.0200	0.0213		mg/Kg		106	78 - 120	6	30
trans-1,3-Dichloropropene			0.0200	0.0200		mg/Kg		100	80 - 120	2	30
Trichloroethene			0.0200	0.0196		mg/Kg		98	79 - 120	3	30
Trichlorofluoromethane			0.0200	0.0222		mg/Kg		111	76 - 142	3	30
Vinyl chloride			0.0200	0.0217		mg/Kg		108	72 - 131	5	30
Xylenes, Total			0.0400	0.0380		mg/Kg		95	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 145*
4-Bromofluorobenzene	*113*		*75 - 139*
Dibromofluoromethane (Surr)	*101*		*73 - 139*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870379/7
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 09:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 09:57	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 09:57	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 09:57	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 09:57	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/06/22 09:57	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 09:57	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 09:57	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/06/22 09:57	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 09:57	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/06/22 09:57	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/06/22 09:57	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/06/22 09:57	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/06/22 09:57	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/06/22 09:57	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 09:57	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/06/22 09:57	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/06/22 09:57	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 09:57	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/06/22 09:57	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 09:57	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 09:57	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/06/22 09:57	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/06/22 09:57	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/06/22 09:57	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 09:57	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 09:57	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/06/22 09:57	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 09:57	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/06/22 09:57	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/06/22 09:57	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 09:57	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/06/22 09:57	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/06/22 09:57	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/06/22 09:57	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/06/22 09:57	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/06/22 09:57	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 09:57	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 09:57	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 09:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870379/7
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 09:57	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 09:57	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 09:57	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 09:57	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 09:57	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/06/22 09:57	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/06/22 09:57	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/06/22 09:57	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/06/22 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*		*10/06/22 09:57*	*1*
4-Bromofluorobenzene	*99*		*75 - 139*		*10/06/22 09:57*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 139*		*10/06/22 09:57*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/06/22 09:57*	*1*

Lab Sample ID: LCS 460-870379/4
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0167		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0230		mg/Kg		115	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0184		mg/Kg		92	75 - 141
1,1,2-Trichloroethane	0.0200	0.0195		mg/Kg		97	80 - 120
1,1-Dichloroethane	0.0200	0.0189		mg/Kg		95	77 - 129
1,1-Dichloroethene	0.0200	0.0177		mg/Kg		88	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0181		mg/Kg		90	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0180		mg/Kg		90	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0203		mg/Kg		101	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0174		mg/Kg		87	60 - 124
1,2-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120
1,2-Dichloroethane	0.0200	0.0173		mg/Kg		86	75 - 123
1,2-Dichloropropane	0.0200	0.0198		mg/Kg		99	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0203		mg/Kg		101	79 - 120
1,3-Dichlorobenzene	0.0200	0.0189		mg/Kg		95	80 - 120
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		92	80 - 120
2-Butanone (MEK)	0.100	0.0815		mg/Kg		81	75 - 120
2-Hexanone	0.100	0.0879		mg/Kg		88	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0905		mg/Kg		91	80 - 122
Acetone	0.100	0.0950		mg/Kg		95	63 - 131
Benzene	0.0200	0.0207		mg/Kg		104	80 - 123
Bromoform	0.0200	0.0135	*	mg/Kg		68	70 - 125
Bromomethane	0.0200	0.0160		mg/Kg		80	64 - 150
Carbon disulfide	0.0200	0.0180		mg/Kg		90	76 - 120
Carbon tetrachloride	0.0200	0.0166		mg/Kg		83	77 - 121
Chlorobenzene	0.0200	0.0185		mg/Kg		92	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870379/4
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	0.0200	0.0156		mg/Kg		78	76 - 127
Chlorodibromomethane	0.0200	0.0162		mg/Kg		81	80 - 120
Chloroethane	0.0200	0.0183		mg/Kg		91	68 - 132
Chloroform	0.0200	0.0181		mg/Kg		90	79 - 126
Chloromethane	0.0200	0.0204		mg/Kg		102	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0172		mg/Kg		86	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0193		mg/Kg		96	80 - 120
Cyclohexane	0.0200	0.0187		mg/Kg		94	70 - 132
Dichlorobromomethane	0.0200	0.0172		mg/Kg		86	73 - 124
Dichlorodifluoromethane	0.0200	0.0179		mg/Kg		90	62 - 150
Ethylbenzene	0.0200	0.0193		mg/Kg		96	76 - 120
Ethylene Dibromide	0.0200	0.0176		mg/Kg		88	79 - 120
Isopropylbenzene	0.0200	0.0190		mg/Kg		95	80 - 120
Methyl acetate	0.0400	0.0412		mg/Kg		103	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		83	80 - 125
Methylcyclohexane	0.0200	0.0189		mg/Kg		94	70 - 133
Methylene Chloride	0.0200	0.0172		mg/Kg		86	76 - 120
m-Xylene & p-Xylene	0.0200	0.0185		mg/Kg		92	80 - 120
n-Butylbenzene	0.0200	0.0227		mg/Kg		113	68 - 150
N-Propylbenzene	0.0200	0.0207		mg/Kg		104	78 - 130
o-Xylene	0.0200	0.0183		mg/Kg		91	80 - 120
sec-Butylbenzene	0.0200	0.0210		mg/Kg		105	78 - 136
Styrene	0.0200	0.0178		mg/Kg		89	80 - 120
tert-Butylbenzene	0.0200	0.0197		mg/Kg		98	80 - 128
Tetrachloroethene	0.0200	0.0179		mg/Kg		90	78 - 123
Toluene	0.0200	0.0200		mg/Kg		100	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0173		mg/Kg		87	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0178		mg/Kg		89	80 - 120
Trichloroethene	0.0200	0.0174		mg/Kg		87	79 - 120
Trichlorofluoromethane	0.0200	0.0172		mg/Kg		86	76 - 142
Vinyl chloride	0.0200	0.0195		mg/Kg		97	72 - 131
Xylenes, Total	0.0400	0.0367		mg/Kg		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 145*
4-Bromofluorobenzene	*104*		*75 - 139*
Dibromofluoromethane (Surr)	*97*		*73 - 139*
Toluene-d8 (Surr)	*114*		*80 - 120*

Lab Sample ID: LCSD 460-870379/5
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0189		mg/Kg		94	78 - 120	12	30
1,1,2,2-Tetrachloroethane	0.0200	0.0222		mg/Kg		111	66 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0216		mg/Kg		108	75 - 141	16	30
1,1,2-Trichloroethane	0.0200	0.0203		mg/Kg		101	80 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870379/5
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0200	0.0210		mg/Kg		105	77 - 129	10	30
1,1-Dichloroethene	0.0200	0.0205		mg/Kg		102	70 - 132	15	30
1,2,3-Trichlorobenzene	0.0200	0.0184		mg/Kg		92	44 - 120	2	30
1,2,4-Trichlorobenzene	0.0200	0.0189		mg/Kg		95	68 - 150	5	30
1,2,4-Trimethylbenzene	0.0200	0.0219		mg/Kg		110	79 - 120	8	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0167		mg/Kg		84	60 - 124	4	30
1,2-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120	3	30
1,2-Dichloroethane	0.0200	0.0178		mg/Kg		89	75 - 123	3	30
1,2-Dichloropropane	0.0200	0.0210		mg/Kg		105	73 - 124	6	30
1,3,5-Trimethylbenzene	0.0200	0.0227		mg/Kg		113	79 - 120	11	30
1,3-Dichlorobenzene	0.0200	0.0199		mg/Kg		99	80 - 120	5	30
1,4-Dichlorobenzene	0.0200	0.0199		mg/Kg		99	80 - 120	7	30
2-Butanone (MEK)	0.100	0.0760		mg/Kg		76	75 - 120	7	30
2-Hexanone	0.100	0.0836		mg/Kg		84	70 - 128	5	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0842		mg/Kg		84	80 - 122	7	30
Acetone	0.100	0.0903		mg/Kg		90	63 - 131	5	30
Benzene	0.0200	0.0229		mg/Kg		114	80 - 123	10	30
Bromoform	0.0200	0.0146		mg/Kg		73	70 - 125	8	30
Bromomethane	0.0200	0.0183		mg/Kg		92	64 - 150	13	30
Carbon disulfide	0.0200	0.0210		mg/Kg		105	76 - 120	15	30
Carbon tetrachloride	0.0200	0.0181		mg/Kg		91	77 - 121	9	30
Chlorobenzene	0.0200	0.0197		mg/Kg		99	80 - 120	7	30
Chlorobromomethane	0.0200	0.0165		mg/Kg		83	76 - 127	6	30
Chlorodibromomethane	0.0200	0.0166		mg/Kg		83	80 - 120	2	30
Chloroethane	0.0200	0.0210		mg/Kg		105	68 - 132	14	30
Chloroform	0.0200	0.0195		mg/Kg		97	79 - 126	7	30
Chloromethane	0.0200	0.0247		mg/Kg		124	63 - 130	19	30
cis-1,2-Dichloroethene	0.0200	0.0185		mg/Kg		93	80 - 123	8	30
cis-1,3-Dichloropropene	0.0200	0.0199		mg/Kg		99	80 - 120	3	30
Cyclohexane	0.0200	0.0217		mg/Kg		109	70 - 132	15	30
Dichlorobromomethane	0.0200	0.0174		mg/Kg		87	73 - 124	1	30
Dichlorodifluoromethane	0.0200	0.0213		mg/Kg		107	62 - 150	17	30
Ethylbenzene	0.0200	0.0206		mg/Kg		103	76 - 120	6	30
Ethylene Dibromide	0.0200	0.0175		mg/Kg		88	79 - 120	0	30
Isopropylbenzene	0.0200	0.0217		mg/Kg		108	80 - 120	13	30
Methyl acetate	0.0400	0.0357		mg/Kg		89	58 - 143	15	30
Methyl tert-butyl ether	0.0200	0.0168		mg/Kg		84	80 - 125	2	30
Methylcyclohexane	0.0200	0.0215		mg/Kg		108	70 - 133	13	30
Methylene Chloride	0.0200	0.0186		mg/Kg		93	76 - 120	7	30
m-Xylene & p-Xylene	0.0200	0.0205		mg/Kg		102	80 - 120	10	30
n-Butylbenzene	0.0200	0.0249		mg/Kg		124	68 - 150	9	30
N-Propylbenzene	0.0200	0.0223		mg/Kg		111	78 - 130	7	30
o-Xylene	0.0200	0.0203		mg/Kg		102	80 - 120	11	30
sec-Butylbenzene	0.0200	0.0232		mg/Kg		116	78 - 136	10	30
Styrene	0.0200	0.0195		mg/Kg		97	80 - 120	9	30
tert-Butylbenzene	0.0200	0.0215		mg/Kg		108	80 - 128	9	30
Tetrachloroethene	0.0200	0.0202		mg/Kg		101	78 - 123	12	30
Toluene	0.0200	0.0212		mg/Kg		106	80 - 120	6	30
trans-1,2-Dichloroethene	0.0200	0.0199		mg/Kg		100	78 - 120	14	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870379/5
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			0.0200	0.0180		mg/Kg		90	80 - 120	1	30
Trichloroethene			0.0200	0.0192		mg/Kg		96	79 - 120	10	30
Trichlorofluoromethane			0.0200	0.0197		mg/Kg		99	76 - 142	14	30
Vinyl chloride			0.0200	0.0239		mg/Kg		119	72 - 131	20	30
Xylenes, Total			0.0400	0.0408		mg/Kg		102	80 - 120	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 145*
4-Bromofluorobenzene	*93*		*75 - 139*
Dibromofluoromethane (Surr)	*81*		*73 - 139*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 460-870501/8
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 20:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 20:11	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 20:11	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 20:11	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 20:11	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/06/22 20:11	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 20:11	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 20:11	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/06/22 20:11	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 20:11	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/06/22 20:11	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/06/22 20:11	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/06/22 20:11	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/06/22 20:11	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/06/22 20:11	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 20:11	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/06/22 20:11	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/06/22 20:11	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 20:11	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/06/22 20:11	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 20:11	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 20:11	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/06/22 20:11	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/06/22 20:11	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/06/22 20:11	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870501/8
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 20:11	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 20:11	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/06/22 20:11	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 20:11	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/06/22 20:11	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/06/22 20:11	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 20:11	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/06/22 20:11	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/06/22 20:11	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/06/22 20:11	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/06/22 20:11	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/06/22 20:11	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 20:11	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 20:11	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 20:11	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 20:11	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 20:11	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 20:11	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 20:11	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 20:11	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/06/22 20:11	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/06/22 20:11	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/06/22 20:11	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/06/22 20:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 145*		*10/06/22 20:11*	*1*
4-Bromofluorobenzene	*103*		*75 - 139*		*10/06/22 20:11*	*1*
Dibromofluoromethane (Surr)	*85*		*73 - 139*		*10/06/22 20:11*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/06/22 20:11*	*1*

Lab Sample ID: LCS 460-870501/3
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		112	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0182		mg/Kg		91	75 - 141
1,1,2-Trichloroethane	0.0200	0.0213		mg/Kg		106	80 - 120
1,1-Dichloroethane	0.0200	0.0197		mg/Kg		99	77 - 129
1,1-Dichloroethene	0.0200	0.0176		mg/Kg		88	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0193		mg/Kg		97	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0192		mg/Kg		96	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0197		mg/Kg		99	79 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870501/3
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.0200	0.0174		mg/Kg		87	60 - 124
1,2-Dichlorobenzene	0.0200	0.0197		mg/Kg		99	80 - 120
1,2-Dichloroethane	0.0200	0.0176		mg/Kg		88	75 - 123
1,2-Dichloropropane	0.0200	0.0202		mg/Kg		101	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0200		mg/Kg		100	79 - 120
1,3-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120
1,4-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120
2-Butanone (MEK)	0.100	0.0750		mg/Kg		75	75 - 120
2-Hexanone	0.100	0.0815		mg/Kg		82	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0832		mg/Kg		83	80 - 122
Acetone	0.100	0.0917		mg/Kg		92	63 - 131
Benzene	0.0200	0.0220		mg/Kg		110	80 - 123
Bromoform	0.0200	0.0147		mg/Kg		74	70 - 125
Bromomethane	0.0200	0.0169		mg/Kg		85	64 - 150
Carbon disulfide	0.0200	0.0183		mg/Kg		91	76 - 120
Carbon tetrachloride	0.0200	0.0161		mg/Kg		81	77 - 121
Chlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120
Chlorobromomethane	0.0200	0.0159		mg/Kg		79	76 - 127
Chlorodibromomethane	0.0200	0.0167		mg/Kg		84	80 - 120
Chloroethane	0.0200	0.0191		mg/Kg		96	68 - 132
Chloroform	0.0200	0.0184		mg/Kg		92	79 - 126
Chloromethane	0.0200	0.0197		mg/Kg		99	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0172		mg/Kg		86	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0197		mg/Kg		98	80 - 120
Cyclohexane	0.0200	0.0185		mg/Kg		92	70 - 132
Dichlorobromomethane	0.0200	0.0173		mg/Kg		87	73 - 124
Dichlorodifluoromethane	0.0200	0.0172		mg/Kg		86	62 - 150
Ethylbenzene	0.0200	0.0200		mg/Kg		100	76 - 120
Ethylene Dibromide	0.0200	0.0184		mg/Kg		92	79 - 120
Isopropylbenzene	0.0200	0.0195		mg/Kg		97	80 - 120
Methyl acetate	0.0400	0.0449		mg/Kg		112	58 - 143
Methyl tert-butyl ether	0.0200	0.0182		mg/Kg		91	80 - 125
Methylcyclohexane	0.0200	0.0179		mg/Kg		90	70 - 133
Methylene Chloride	0.0200	0.0171		mg/Kg		86	76 - 120
m-Xylene & p-Xylene	0.0200	0.0191		mg/Kg		96	80 - 120
n-Butylbenzene	0.0200	0.0235		mg/Kg		118	68 - 150
N-Propylbenzene	0.0200	0.0202		mg/Kg		101	78 - 130
o-Xylene	0.0200	0.0185		mg/Kg		93	80 - 120
sec-Butylbenzene	0.0200	0.0213		mg/Kg		107	78 - 136
Styrene	0.0200	0.0186		mg/Kg		93	80 - 120
tert-Butylbenzene	0.0200	0.0189		mg/Kg		94	80 - 128
Tetrachloroethene	0.0200	0.0185		mg/Kg		92	78 - 123
Toluene	0.0200	0.0207		mg/Kg		104	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0161		mg/Kg		80	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		92	80 - 120
Trichloroethene	0.0200	0.0176		mg/Kg		88	79 - 120
Trichlorofluoromethane	0.0200	0.0172		mg/Kg		86	76 - 142
Vinyl chloride	0.0200	0.0200		mg/Kg		100	72 - 131
Xylenes, Total	0.0400	0.0376		mg/Kg		94	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		72 - 145
4-Bromofluorobenzene	100		75 - 139
Dibromofluoromethane (Surr)	92		73 - 139
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: LCSD 460-870501/5
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0164		mg/Kg		82	78 - 120	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.0244		mg/Kg		122	66 - 123	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0161		mg/Kg		81	75 - 141	12	30
1,1,2-Trichloroethane			0.0200	0.0205		mg/Kg		102	80 - 120	4	30
1,1-Dichloroethane			0.0200	0.0192		mg/Kg		96	77 - 129	3	30
1,1-Dichloroethene			0.0200	0.0156		mg/Kg		78	70 - 132	12	30
1,2,3-Trichlorobenzene			0.0200	0.0173		mg/Kg		87	44 - 120	11	30
1,2,4-Trichlorobenzene			0.0200	0.0167		mg/Kg		83	68 - 150	14	30
1,2,4-Trimethylbenzene			0.0200	0.0203		mg/Kg		101	79 - 120	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0185		mg/Kg		93	60 - 124	6	30
1,2-Dichlorobenzene			0.0200	0.0187		mg/Kg		94	80 - 120	5	30
1,2-Dichloroethane			0.0200	0.0172		mg/Kg		86	75 - 123	2	30
1,2-Dichloropropane			0.0200	0.0197		mg/Kg		98	73 - 124	3	30
1,3,5-Trimethylbenzene			0.0200	0.0208		mg/Kg		104	79 - 120	4	30
1,3-Dichlorobenzene			0.0200	0.0184		mg/Kg		92	80 - 120	4	30
1,4-Dichlorobenzene			0.0200	0.0189		mg/Kg		95	80 - 120	1	30
2-Butanone (MEK)			0.100	0.0766		mg/Kg		77	75 - 120	2	30
2-Hexanone			0.100	0.0796		mg/Kg		80	70 - 128	2	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0807		mg/Kg		81	80 - 122	3	30
Acetone			0.100	0.0914		mg/Kg		91	63 - 131	0	30
Benzene			0.0200	0.0219		mg/Kg		110	80 - 123	0	30
Bromoform			0.0200	0.0144		mg/Kg		72	70 - 125	2	30
Bromomethane			0.0200	0.0166		mg/Kg		83	64 - 150	2	30
Carbon disulfide			0.0200	0.0166		mg/Kg		83	76 - 120	10	30
Carbon tetrachloride			0.0200	0.0156		mg/Kg		78	77 - 121	4	30
Chlorobenzene			0.0200	0.0189		mg/Kg		95	80 - 120	2	30
Chlorobromomethane			0.0200	0.0164		mg/Kg		82	76 - 127	3	30
Chlorodibromomethane			0.0200	0.0173		mg/Kg		87	80 - 120	3	30
Chloroethane			0.0200	0.0188		mg/Kg		94	68 - 132	2	30
Chloroform			0.0200	0.0179		mg/Kg		90	79 - 126	2	30
Chloromethane			0.0200	0.0214		mg/Kg		107	63 - 130	8	30
cis-1,2-Dichloroethene			0.0200	0.0168		mg/Kg		84	80 - 123	2	30
cis-1,3-Dichloropropene			0.0200	0.0193		mg/Kg		96	80 - 120	2	30
Cyclohexane			0.0200	0.0185		mg/Kg		93	70 - 132	0	30
Dichlorobromomethane			0.0200	0.0167		mg/Kg		84	73 - 124	4	30
Dichlorodifluoromethane			0.0200	0.0173		mg/Kg		87	62 - 150	1	30
Ethylbenzene			0.0200	0.0192		mg/Kg		96	76 - 120	4	30
Ethylene Dibromide			0.0200	0.0183		mg/Kg		91	79 - 120	1	30
Isopropylbenzene			0.0200	0.0198		mg/Kg		99	80 - 120	2	30
Methyl acetate			0.0400	0.0451		mg/Kg		113	58 - 143	0	30
Methyl tert-butyl ether			0.0200	0.0160		mg/Kg		80	80 - 125	13	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870501/5
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane			0.0200	0.0171		mg/Kg		85	70 - 133	5	30
Methylene Chloride			0.0200	0.0172		mg/Kg		86	76 - 120	0	30
m-Xylene & p-Xylene			0.0200	0.0182		mg/Kg		91	80 - 120	5	30
n-Butylbenzene			0.0200	0.0214		mg/Kg		107	68 - 150	9	30
N-Propylbenzene			0.0200	0.0207		mg/Kg		104	78 - 130	2	30
o-Xylene			0.0200	0.0180		mg/Kg		90	80 - 120	3	30
sec-Butylbenzene			0.0200	0.0201		mg/Kg		101	78 - 136	6	30
Styrene			0.0200	0.0180		mg/Kg		90	80 - 120	3	30
tert-Butylbenzene			0.0200	0.0191		mg/Kg		95	80 - 128	1	30
Tetrachloroethene			0.0200	0.0179		mg/Kg		89	78 - 123	3	30
Toluene			0.0200	0.0203		mg/Kg		102	80 - 120	2	30
trans-1,2-Dichloroethene			0.0200	0.0175		mg/Kg		88	78 - 120	9	30
trans-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		89	80 - 120	3	30
Trichloroethene			0.0200	0.0174		mg/Kg		87	79 - 120	1	30
Trichlorofluoromethane			0.0200	0.0162		mg/Kg		81	76 - 142	5	30
Vinyl chloride			0.0200	0.0195		mg/Kg		98	72 - 131	2	30
Xylenes, Total			0.0400	0.0363		mg/Kg		91	80 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 145*
4-Bromofluorobenzene	*107*		*75 - 139*
Dibromofluoromethane (Surr)	*90*		*73 - 139*
Toluene-d8 (Surr)	*114*		*80 - 120*

Lab Sample ID: LB3 460-870524/1-A
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870524

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg		10/06/22 16:34	10/07/22 22:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-870524/1-A
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870524

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0060	U	0.0060	0.0057	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg		10/06/22 16:34	10/07/22 22:15	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 145*	*10/06/22 16:34*	*10/07/22 22:15*	*1*
4-Bromofluorobenzene	*118*		*75 - 139*	*10/06/22 16:34*	*10/07/22 22:15*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*	*10/06/22 16:34*	*10/07/22 22:15*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*	*10/06/22 16:34*	*10/07/22 22:15*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870690/9
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/07/22 21:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/07/22 21:50	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/07/22 21:50	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/07/22 21:50	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/07/22 21:50	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/07/22 21:50	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/07/22 21:50	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/07/22 21:50	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/07/22 21:50	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/07/22 21:50	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/07/22 21:50	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/07/22 21:50	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/07/22 21:50	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/07/22 21:50	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/07/22 21:50	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/07/22 21:50	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/07/22 21:50	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/07/22 21:50	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/07/22 21:50	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/07/22 21:50	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/07/22 21:50	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/07/22 21:50	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/07/22 21:50	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/07/22 21:50	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/07/22 21:50	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/07/22 21:50	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/07/22 21:50	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/07/22 21:50	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/07/22 21:50	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/07/22 21:50	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/07/22 21:50	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/07/22 21:50	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/07/22 21:50	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/07/22 21:50	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/07/22 21:50	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/07/22 21:50	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/07/22 21:50	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/07/22 21:50	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/07/22 21:50	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/07/22 21:50	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870690/9
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/07/22 21:50	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/07/22 21:50	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/07/22 21:50	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/07/22 21:50	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/07/22 21:50	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/07/22 21:50	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/07/22 21:50	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/07/22 21:50	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/07/22 21:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 145*		*10/07/22 21:50*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*		*10/07/22 21:50*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*		*10/07/22 21:50*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/07/22 21:50*	*1*

Lab Sample ID: LCS 460-870690/5
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0202		mg/Kg		101	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0206		mg/Kg		103	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0167		mg/Kg		84	75 - 141
1,1,2-Trichloroethane	0.0200	0.0200		mg/Kg		100	80 - 120
1,1-Dichloroethane	0.0200	0.0198		mg/Kg		99	77 - 129
1,1-Dichloroethene	0.0200	0.0155		mg/Kg		78	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0223		mg/Kg		112	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0230		mg/Kg		115	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0228		mg/Kg		114	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0197		mg/Kg		98	60 - 124
1,2-Dichlorobenzene	0.0200	0.0219		mg/Kg		110	80 - 120
1,2-Dichloroethane	0.0200	0.0186		mg/Kg		93	75 - 123
1,2-Dichloropropane	0.0200	0.0205		mg/Kg		102	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0230		mg/Kg		115	79 - 120
1,3-Dichlorobenzene	0.0200	0.0216		mg/Kg		108	80 - 120
1,4-Dichlorobenzene	0.0200	0.0212		mg/Kg		106	80 - 120
2-Butanone (MEK)	0.100	0.0969		mg/Kg		97	75 - 120
2-Hexanone	0.100	0.0968		mg/Kg		97	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0978		mg/Kg		98	80 - 122
Acetone	0.100	0.0766		mg/Kg		77	63 - 131
Benzene	0.0200	0.0216		mg/Kg		108	80 - 123
Bromoform	0.0200	0.0184		mg/Kg		92	70 - 125
Bromomethane	0.0200	0.0169		mg/Kg		85	64 - 150
Carbon disulfide	0.0200	0.0151		mg/Kg		76	76 - 120
Carbon tetrachloride	0.0200	0.0204		mg/Kg		102	77 - 121
Chlorobenzene	0.0200	0.0215		mg/Kg		107	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870690/5
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	0.0200	0.0198		mg/Kg		99	76 - 127
Chlorodibromomethane	0.0200	0.0203		mg/Kg		102	80 - 120
Chloroethane	0.0200	0.0158		mg/Kg		79	68 - 132
Chloroform	0.0200	0.0193		mg/Kg		97	79 - 126
Chloromethane	0.0200	0.0160		mg/Kg		80	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0201		mg/Kg		100	80 - 120
Cyclohexane	0.0200	0.0210		mg/Kg		105	70 - 132
Dichlorobromomethane	0.0200	0.0193		mg/Kg		97	73 - 124
Dichlorodifluoromethane	0.0200	0.0138		mg/Kg		69	62 - 150
Ethylbenzene	0.0200	0.0221		mg/Kg		110	76 - 120
Ethylene Dibromide	0.0200	0.0201		mg/Kg		101	79 - 120
Isopropylbenzene	0.0200	0.0225		mg/Kg		113	80 - 120
Methyl acetate	0.0400	0.0339		mg/Kg		85	58 - 143
Methyl tert-butyl ether	0.0200	0.0181		mg/Kg		90	80 - 125
Methylcyclohexane	0.0200	0.0205		mg/Kg		103	70 - 133
Methylene Chloride	0.0200	0.0183		mg/Kg		92	76 - 120
m-Xylene & p-Xylene	0.0200	0.0217		mg/Kg		109	80 - 120
n-Butylbenzene	0.0200	0.0230		mg/Kg		115	68 - 150
N-Propylbenzene	0.0200	0.0229		mg/Kg		114	78 - 130
o-Xylene	0.0200	0.0212		mg/Kg		106	80 - 120
sec-Butylbenzene	0.0200	0.0232		mg/Kg		116	78 - 136
Styrene	0.0200	0.0208		mg/Kg		104	80 - 120
tert-Butylbenzene	0.0200	0.0228		mg/Kg		114	80 - 128
Tetrachloroethene	0.0200	0.0237		mg/Kg		118	78 - 123
Toluene	0.0200	0.0217		mg/Kg		109	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0197		mg/Kg		98	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0190		mg/Kg		95	80 - 120
Trichloroethene	0.0200	0.0202		mg/Kg		101	79 - 120
Trichlorofluoromethane	0.0200	0.0184		mg/Kg		92	76 - 142
Vinyl chloride	0.0200	0.0175		mg/Kg		88	72 - 131
Xylenes, Total	0.0400	0.0430		mg/Kg		107	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 145*
4-Bromofluorobenzene	*98*		*75 - 139*
Dibromofluoromethane (Surr)	*84*		*73 - 139*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 460-870690/6
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0202		mg/Kg		101	78 - 120	0	30
1,1,2,2-Tetrachloroethane	0.0200	0.0211		mg/Kg		106	66 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0163		mg/Kg		82	75 - 141	2	30
1,1,2-Trichloroethane	0.0200	0.0208		mg/Kg		104	80 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870690/6
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0200	0.0204		mg/Kg		102	77 - 129	3	30
1,1-Dichloroethene	0.0200	0.0156		mg/Kg		78	70 - 132	0	30
1,2,3-Trichlorobenzene	0.0200	0.0225		mg/Kg		113	44 - 120	1	30
1,2,4-Trichlorobenzene	0.0200	0.0224		mg/Kg		112	68 - 150	3	30
1,2,4-Trimethylbenzene	0.0200	0.0216		mg/Kg		108	79 - 120	6	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0195		mg/Kg		98	60 - 124	1	30
1,2-Dichlorobenzene	0.0200	0.0214		mg/Kg		107	80 - 120	2	30
1,2-Dichloroethane	0.0200	0.0182		mg/Kg		91	75 - 123	2	30
1,2-Dichloropropane	0.0200	0.0196		mg/Kg		98	73 - 124	4	30
1,3,5-Trimethylbenzene	0.0200	0.0218		mg/Kg		109	79 - 120	5	30
1,3-Dichlorobenzene	0.0200	0.0218		mg/Kg		109	80 - 120	1	30
1,4-Dichlorobenzene	0.0200	0.0210		mg/Kg		105	80 - 120	1	30
2-Butanone (MEK)	0.100	0.0902		mg/Kg		90	75 - 120	7	30
2-Hexanone	0.100	0.0909		mg/Kg		91	70 - 128	6	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0915		mg/Kg		92	80 - 122	7	30
Acetone	0.100	0.0740		mg/Kg		74	63 - 131	3	30
Benzene	0.0200	0.0214		mg/Kg		107	80 - 123	1	30
Bromoform	0.0200	0.0190		mg/Kg		95	70 - 125	3	30
Bromomethane	0.0200	0.0168		mg/Kg		84	64 - 150	1	30
Carbon disulfide	0.0200	0.0152		mg/Kg		76	76 - 120	0	30
Carbon tetrachloride	0.0200	0.0197		mg/Kg		99	77 - 121	3	30
Chlorobenzene	0.0200	0.0208		mg/Kg		104	80 - 120	3	30
Chlorobromomethane	0.0200	0.0193		mg/Kg		97	76 - 127	2	30
Chlorodibromomethane	0.0200	0.0199		mg/Kg		99	80 - 120	2	30
Chloroethane	0.0200	0.0153		mg/Kg		76	68 - 132	3	30
Chloroform	0.0200	0.0192		mg/Kg		96	79 - 126	1	30
Chloromethane	0.0200	0.0151		mg/Kg		75	63 - 130	6	30
cis-1,2-Dichloroethene	0.0200	0.0191		mg/Kg		96	80 - 123	1	30
cis-1,3-Dichloropropene	0.0200	0.0203		mg/Kg		101	80 - 120	1	30
Cyclohexane	0.0200	0.0210		mg/Kg		105	70 - 132	0	30
Dichlorobromomethane	0.0200	0.0183		mg/Kg		92	73 - 124	6	30
Dichlorodifluoromethane	0.0200	0.0146		mg/Kg		73	62 - 150	6	30
Ethylbenzene	0.0200	0.0212		mg/Kg		106	76 - 120	4	30
Ethylene Dibromide	0.0200	0.0198		mg/Kg		99	79 - 120	2	30
Isopropylbenzene	0.0200	0.0219		mg/Kg		109	80 - 120	3	30
Methyl acetate	0.0400	0.0300		mg/Kg		75	58 - 143	12	30
Methyl tert-butyl ether	0.0200	0.0175		mg/Kg		87	80 - 125	4	30
Methylcyclohexane	0.0200	0.0204		mg/Kg		102	70 - 133	1	30
Methylene Chloride	0.0200	0.0156		mg/Kg		78	76 - 120	16	30
m-Xylene & p-Xylene	0.0200	0.0208		mg/Kg		104	80 - 120	4	30
n-Butylbenzene	0.0200	0.0222		mg/Kg		111	68 - 150	3	30
N-Propylbenzene	0.0200	0.0220		mg/Kg		110	78 - 130	4	30
o-Xylene	0.0200	0.0214		mg/Kg		107	80 - 120	1	30
sec-Butylbenzene	0.0200	0.0218		mg/Kg		109	78 - 136	6	30
Styrene	0.0200	0.0203		mg/Kg		102	80 - 120	2	30
tert-Butylbenzene	0.0200	0.0209		mg/Kg		104	80 - 128	9	30
Tetrachloroethene	0.0200	0.0236		mg/Kg		118	78 - 123	0	30
Toluene	0.0200	0.0214		mg/Kg		107	80 - 120	1	30
trans-1,2-Dichloroethene	0.0200	0.0165		mg/Kg		82	78 - 120	18	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870690/6
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			0.0200	0.0187		mg/Kg		93	80 - 120	2	30
Trichloroethene			0.0200	0.0197		mg/Kg		98	79 - 120	3	30
Trichlorofluoromethane			0.0200	0.0186		mg/Kg		93	76 - 142	1	30
Vinyl chloride			0.0200	0.0169		mg/Kg		85	72 - 131	4	30
Xylenes, Total			0.0400	0.0422		mg/Kg		105	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 145*
4-Bromofluorobenzene	*112*		*75 - 139*
Dibromofluoromethane (Surr)	*96*		*73 - 139*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: MB 460-870776/8
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/08/22 11:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/08/22 11:24	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/08/22 11:24	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/08/22 11:24	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/08/22 11:24	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/08/22 11:24	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/08/22 11:24	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/08/22 11:24	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/08/22 11:24	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/08/22 11:24	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/08/22 11:24	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/08/22 11:24	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/08/22 11:24	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/08/22 11:24	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/08/22 11:24	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/08/22 11:24	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/08/22 11:24	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/08/22 11:24	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/08/22 11:24	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/08/22 11:24	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/08/22 11:24	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/08/22 11:24	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/08/22 11:24	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/08/22 11:24	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/08/22 11:24	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870776/8
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/08/22 11:24	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/08/22 11:24	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/08/22 11:24	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/08/22 11:24	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/08/22 11:24	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/08/22 11:24	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/08/22 11:24	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/08/22 11:24	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/08/22 11:24	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/08/22 11:24	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/08/22 11:24	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/08/22 11:24	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/08/22 11:24	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/08/22 11:24	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/08/22 11:24	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/08/22 11:24	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/08/22 11:24	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/08/22 11:24	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/08/22 11:24	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/08/22 11:24	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/08/22 11:24	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/08/22 11:24	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/08/22 11:24	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/08/22 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 145*		*10/08/22 11:24*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*		*10/08/22 11:24*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 139*		*10/08/22 11:24*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/08/22 11:24*	*1*

Lab Sample ID: LCS 460-870776/4
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0188		mg/Kg		94	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0199		mg/Kg		99	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0150		mg/Kg		75	75 - 141
1,1,2-Trichloroethane	0.0200	0.0190		mg/Kg		95	80 - 120
1,1-Dichloroethane	0.0200	0.0189		mg/Kg		95	77 - 129
1,1-Dichloroethene	0.0200	0.0146		mg/Kg		73	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0211		mg/Kg		105	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0203		mg/Kg		101	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0203		mg/Kg		102	79 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870776/4
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.0200	0.0178		mg/Kg		89	60 - 124
1,2-Dichlorobenzene	0.0200	0.0200		mg/Kg		100	80 - 120
1,2-Dichloroethane	0.0200	0.0170		mg/Kg		85	75 - 123
1,2-Dichloropropane	0.0200	0.0184		mg/Kg		92	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0209		mg/Kg		105	79 - 120
1,3-Dichlorobenzene	0.0200	0.0203		mg/Kg		102	80 - 120
1,4-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120
2-Butanone (MEK)	0.100	0.0891		mg/Kg		89	75 - 120
2-Hexanone	0.100	0.0865		mg/Kg		87	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0879		mg/Kg		88	80 - 122
Acetone	0.100	0.0709		mg/Kg		71	63 - 131
Benzene	0.0200	0.0198		mg/Kg		99	80 - 123
Bromoform	0.0200	0.0170		mg/Kg		85	70 - 125
Bromomethane	0.0200	0.0160		mg/Kg		80	64 - 150
Carbon disulfide	0.0200	0.0137	*	mg/Kg		69	76 - 120
Carbon tetrachloride	0.0200	0.0186		mg/Kg		93	77 - 121
Chlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120
Chlorobromomethane	0.0200	0.0178		mg/Kg		89	76 - 127
Chlorodibromomethane	0.0200	0.0184		mg/Kg		92	80 - 120
Chloroethane	0.0200	0.0152		mg/Kg		76	68 - 132
Chloroform	0.0200	0.0179		mg/Kg		90	79 - 126
Chloromethane	0.0200	0.0154		mg/Kg		77	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0175		mg/Kg		88	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0187		mg/Kg		93	80 - 120
Cyclohexane	0.0200	0.0202		mg/Kg		101	70 - 132
Dichlorobromomethane	0.0200	0.0174		mg/Kg		87	73 - 124
Dichlorodifluoromethane	0.0200	0.0168		mg/Kg		84	62 - 150
Ethylbenzene	0.0200	0.0199		mg/Kg		99	76 - 120
Ethylene Dibromide	0.0200	0.0185		mg/Kg		93	79 - 120
Isopropylbenzene	0.0200	0.0203		mg/Kg		102	80 - 120
Methyl acetate	0.0400	0.0325		mg/Kg		81	58 - 143
Methyl tert-butyl ether	0.0200	0.0173		mg/Kg		87	80 - 125
Methylcyclohexane	0.0200	0.0200		mg/Kg		100	70 - 133
Methylene Chloride	0.0200	0.0170		mg/Kg		85	76 - 120
m-Xylene & p-Xylene	0.0200	0.0198		mg/Kg		99	80 - 120
n-Butylbenzene	0.0200	0.0210		mg/Kg		105	68 - 150
N-Propylbenzene	0.0200	0.0209		mg/Kg		104	78 - 130
o-Xylene	0.0200	0.0189		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0200	0.0212		mg/Kg		106	78 - 136
Styrene	0.0200	0.0189		mg/Kg		95	80 - 120
tert-Butylbenzene	0.0200	0.0211		mg/Kg		105	80 - 128
Tetrachloroethene	0.0200	0.0219		mg/Kg		109	78 - 123
Toluene	0.0200	0.0200		mg/Kg		100	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0183		mg/Kg		92	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0180		mg/Kg		90	80 - 120
Trichloroethene	0.0200	0.0193		mg/Kg		96	79 - 120
Trichlorofluoromethane	0.0200	0.0182		mg/Kg		91	76 - 142
Vinyl chloride	0.0200	0.0168		mg/Kg		84	72 - 131
Xylenes, Total	0.0400	0.0387		mg/Kg		97	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		72 - 145
4-Bromofluorobenzene	109		75 - 139
Dibromofluoromethane (Surr)	92		73 - 139
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: LCSD 460-870776/5
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0187		mg/Kg		93	78 - 120	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.0197		mg/Kg		99	66 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0156		mg/Kg		78	75 - 141	4	30
1,1,2-Trichloroethane			0.0200	0.0183		mg/Kg		91	80 - 120	4	30
1,1-Dichloroethane			0.0200	0.0186		mg/Kg		93	77 - 129	2	30
1,1-Dichloroethene			0.0200	0.0146		mg/Kg		73	70 - 132	0	30
1,2,3-Trichlorobenzene			0.0200	0.0213		mg/Kg		106	44 - 120	1	30
1,2,4-Trichlorobenzene			0.0200	0.0209		mg/Kg		105	68 - 150	3	30
1,2,4-Trimethylbenzene			0.0200	0.0208		mg/Kg		104	79 - 120	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0195		mg/Kg		97	60 - 124	9	30
1,2-Dichlorobenzene			0.0200	0.0203		mg/Kg		102	80 - 120	2	30
1,2-Dichloroethane			0.0200	0.0173		mg/Kg		86	75 - 123	2	30
1,2-Dichloropropane			0.0200	0.0188		mg/Kg		94	73 - 124	2	30
1,3,5-Trimethylbenzene			0.0200	0.0208		mg/Kg		104	79 - 120	1	30
1,3-Dichlorobenzene			0.0200	0.0207		mg/Kg		103	80 - 120	2	30
1,4-Dichlorobenzene			0.0200	0.0200		mg/Kg		100	80 - 120	2	30
2-Butanone (MEK)			0.100	0.0867		mg/Kg		87	75 - 120	3	30
2-Hexanone			0.100	0.0858		mg/Kg		86	70 - 128	1	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0878		mg/Kg		88	80 - 122	0	30
Acetone			0.100	0.0714		mg/Kg		71	63 - 131	1	30
Benzene			0.0200	0.0200		mg/Kg		100	80 - 123	1	30
Bromoform			0.0200	0.0171		mg/Kg		85	70 - 125	0	30
Bromomethane			0.0200	0.0170		mg/Kg		85	64 - 150	6	30
Carbon disulfide			0.0200	0.0136	*	mg/Kg		68	76 - 120	1	30
Carbon tetrachloride			0.0200	0.0192		mg/Kg		96	77 - 121	3	30
Chlorobenzene			0.0200	0.0196		mg/Kg		98	80 - 120	1	30
Chlorobromomethane			0.0200	0.0180		mg/Kg		90	76 - 127	1	30
Chlorodibromomethane			0.0200	0.0181		mg/Kg		91	80 - 120	2	30
Chloroethane			0.0200	0.0156		mg/Kg		78	68 - 132	3	30
Chloroform			0.0200	0.0180		mg/Kg		90	79 - 126	0	30
Chloromethane			0.0200	0.0163		mg/Kg		82	63 - 130	6	30
cis-1,2-Dichloroethene			0.0200	0.0176		mg/Kg		88	80 - 123	0	30
cis-1,3-Dichloropropene			0.0200	0.0183		mg/Kg		91	80 - 120	2	30
Cyclohexane			0.0200	0.0198		mg/Kg		99	70 - 132	2	30
Dichlorobromomethane			0.0200	0.0177		mg/Kg		88	73 - 124	2	30
Dichlorodifluoromethane			0.0200	0.0182		mg/Kg		91	62 - 150	8	30
Ethylbenzene			0.0200	0.0196		mg/Kg		98	76 - 120	1	30
Ethylene Dibromide			0.0200	0.0178		mg/Kg		89	79 - 120	4	30
Isopropylbenzene			0.0200	0.0205		mg/Kg		103	80 - 120	1	30
Methyl acetate			0.0400	0.0335		mg/Kg		84	58 - 143	3	30
Methyl tert-butyl ether			0.0200	0.0174		mg/Kg		87	80 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870776/5
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane			0.0200	0.0199		mg/Kg		100	70 - 133	0	30
Methylene Chloride			0.0200	0.0171		mg/Kg		85	76 - 120	1	30
m-Xylene & p-Xylene			0.0200	0.0195		mg/Kg		98	80 - 120	2	30
n-Butylbenzene			0.0200	0.0214		mg/Kg		107	68 - 150	2	30
N-Propylbenzene			0.0200	0.0215		mg/Kg		107	78 - 130	3	30
o-Xylene			0.0200	0.0194		mg/Kg		97	80 - 120	2	30
sec-Butylbenzene			0.0200	0.0212		mg/Kg		106	78 - 136	0	30
Styrene			0.0200	0.0188		mg/Kg		94	80 - 120	1	30
tert-Butylbenzene			0.0200	0.0208		mg/Kg		104	80 - 128	1	30
Tetrachloroethene			0.0200	0.0210		mg/Kg		105	78 - 123	4	30
Toluene			0.0200	0.0195		mg/Kg		97	80 - 120	3	30
trans-1,2-Dichloroethene			0.0200	0.0187		mg/Kg		93	78 - 120	2	30
trans-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		89	80 - 120	1	30
Trichloroethene			0.0200	0.0183		mg/Kg		92	79 - 120	5	30
Trichlorofluoromethane			0.0200	0.0190		mg/Kg		95	76 - 142	4	30
Vinyl chloride			0.0200	0.0173		mg/Kg		87	72 - 131	3	30
Xylenes, Total			0.0400	0.0389		mg/Kg		97	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 145*
4-Bromofluorobenzene	*110*		*75 - 139*
Dibromofluoromethane (Surr)	*93*		*73 - 139*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-870137/1-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.010	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
1,4-Dioxane	0.033	U	0.033	0.029	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.034	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.042	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dichlorophenol	0.13	U	0.13	0.021	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dimethylphenol	0.33	U	0.33	0.039	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dinitrotoluene	0.067	U	0.067	0.036	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,6-Dinitrotoluene	0.067	U	0.067	0.024	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Chlorophenol	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Methylnaphthalene	0.33	U	0.33	0.0093	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Methylphenol	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Nitroaniline	0.33	U	0.33	0.025	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Nitrophenol	0.33	U	0.33	0.033	mg/Kg		10/04/22 18:31	10/04/22 23:36	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870137/1-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
3-Nitroaniline	0.33	U	0.33	0.079	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.013	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.019	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Chloroaniline	0.33	U	0.33	0.059	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Nitroaniline	0.33	U	0.33	0.038	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Acetophenone	0.33	U	0.33	0.016	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Atrazine	0.13	U	0.13	0.019	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzaldehyde	0.33	U	0.33	0.055	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.026	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Caprolactam	0.33	U	0.33	0.051	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Carbazole	0.33	U	0.33	0.013	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Dibenzofuran	0.33	U	0.33	0.011	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Diethyl phthalate	0.33	U	0.33	0.011	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Dimethyl phthalate	0.33	U	0.33	0.075	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Di-n-butyl phthalate	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachlorobenzene	0.033	U	0.033	0.016	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachloroethane	0.033	U	0.033	0.011	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Isophorone	0.13	U	0.13	0.096	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Nitrobenzene	0.033	U	0.033	0.018	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.024	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.027	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		10/04/22 18:31	10/04/22 23:36	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870137/1-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		10/04/22 18:31	10/04/22 23:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 123*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
2-Fluorobiphenyl	*78*		*22 - 122*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
2-Fluorophenol (Surr)	*70*		*18 - 123*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
Nitrobenzene-d5 (Surr)	*72*		*16 - 125*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
Phenol-d5 (Surr)	*71*		*23 - 120*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
Terphenyl-d14 (Surr)	*86*		*25 - 126*	*10/04/22 18:31*	*10/04/22 23:36*	*1*

Lab Sample ID: LCS 460-870137/2-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.04		mg/Kg		91	59 - 120
1,2,4,5-Tetrachlorobenzene	3.33	3.14		mg/Kg		94	60 - 120
1,4-Dioxane	3.33	2.53		mg/Kg		76	21 - 120
2,2'-oxybis[1-chloropropane]	3.33	2.34		mg/Kg		70	49 - 126
2,3,4,6-Tetrachlorophenol	3.33	3.02		mg/Kg		91	54 - 120
2,4,5-Trichlorophenol	3.33	3.01		mg/Kg		90	59 - 120
2,4,6-Trichlorophenol	3.33	2.92		mg/Kg		88	58 - 120
2,4-Dichlorophenol	3.33	2.88		mg/Kg		86	66 - 120
2,4-Dimethylphenol	3.33	2.66		mg/Kg		80	67 - 120
2,4-Dinitrophenol	6.67	6.09		mg/Kg		91	36 - 129
2,4-Dinitrotoluene	3.33	3.02		mg/Kg		91	65 - 124
2,6-Dinitrotoluene	3.33	3.06		mg/Kg		92	67 - 121
2-Chloronaphthalene	3.33	3.02		mg/Kg		91	60 - 120
2-Chlorophenol	3.33	2.73		mg/Kg		82	63 - 120
2-Methylnaphthalene	3.33	2.48		mg/Kg		75	64 - 120
2-Methylphenol	3.33	2.69		mg/Kg		81	63 - 120
2-Nitroaniline	3.33	2.43		mg/Kg		73	48 - 120
2-Nitrophenol	3.33	2.86		mg/Kg		86	64 - 120
3 & 4 Methylphenol	3.33	2.77		mg/Kg		83	61 - 120
3,3'-Dichlorobenzidine	3.33	3.20		mg/Kg		96	13 - 136
3-Nitroaniline	3.33	2.70		mg/Kg		81	39 - 122
4,6-Dinitro-2-methylphenol	6.67	6.20		mg/Kg		93	50 - 136
4-Bromophenyl phenyl ether	3.33	3.07		mg/Kg		92	67 - 120
4-Chloro-3-methylphenol	3.33	2.81		mg/Kg		84	66 - 120
4-Chloroaniline	3.33	2.67		mg/Kg		80	15 - 128
4-Chlorophenyl phenyl ether	3.33	2.95		mg/Kg		88	62 - 120
4-Methylphenol	3.33	2.77		mg/Kg		83	61 - 120
4-Nitroaniline	3.33	2.51		mg/Kg		75	55 - 120
4-Nitrophenol	6.67	5.03		mg/Kg		75	52 - 123
Acenaphthene	3.33	2.65		mg/Kg		79	49 - 120
Acenaphthylene	3.33	2.82		mg/Kg		85	64 - 120
Acetophenone	3.33	2.54		mg/Kg		76	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870137/2-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	3.33	2.85		mg/Kg		86	67 - 120
Atrazine	1.33	1.23		mg/Kg		92	29 - 150
Benzaldehyde	1.33	1.02		mg/Kg		77	34 - 150
Benzo[a]anthracene	3.33	2.93		mg/Kg		88	62 - 120
Benzo[a]pyrene	3.33	2.74		mg/Kg		82	73 - 123
Benzo[b]fluoranthene	3.33	2.94		mg/Kg		88	70 - 125
Benzo[g,h,i]perylene	3.33	3.18		mg/Kg		95	66 - 120
Benzo[k]fluoranthene	3.33	2.93		mg/Kg		88	67 - 122
Bis(2-chloroethoxy)methane	3.33	2.69		mg/Kg		81	62 - 120
Bis(2-chloroethyl)ether	3.33	2.71		mg/Kg		81	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.18		mg/Kg		95	59 - 125
Butyl benzyl phthalate	3.33	3.21		mg/Kg		96	62 - 127
Caprolactam	1.33	1.12		mg/Kg		84	36 - 150
Carbazole	3.33	2.84		mg/Kg		85	64 - 120
Chrysene	3.33	2.77		mg/Kg		83	63 - 120
Dibenz(a,h)anthracene	3.33	3.37		mg/Kg		101	66 - 128
Dibenzofuran	3.33	2.98		mg/Kg		89	61 - 120
Diethyl phthalate	3.33	2.86		mg/Kg		86	63 - 120
Dimethyl phthalate	3.33	3.03		mg/Kg		91	65 - 120
Di-n-butyl phthalate	3.33	2.97		mg/Kg		89	66 - 120
Di-n-octyl phthalate	3.33	3.08		mg/Kg		92	65 - 133
Fluoranthene	3.33	2.79		mg/Kg		84	61 - 120
Fluorene	3.33	2.93		mg/Kg		88	60 - 120
Hexachlorobenzene	3.33	2.97		mg/Kg		89	66 - 120
Hexachlorobutadiene	3.33	2.80		mg/Kg		84	62 - 120
Hexachlorocyclopentadiene	3.33	2.83		mg/Kg		85	38 - 120
Hexachloroethane	3.33	2.75		mg/Kg		82	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.59		mg/Kg		108	62 - 130
Isophorone	3.33	2.72		mg/Kg		82	67 - 120
Naphthalene	3.33	2.77		mg/Kg		83	63 - 120
Nitrobenzene	3.33	2.70		mg/Kg		81	63 - 120
N-Nitrosodi-n-propylamine	3.33	2.55		mg/Kg		76	61 - 120
N-Nitrosodiphenylamine	3.33	2.92		mg/Kg		88	63 - 120
Pentachlorophenol	6.67	5.05		mg/Kg		76	37 - 126
Phenanthrene	3.33	2.86		mg/Kg		86	66 - 120
Phenol	3.33	2.79		mg/Kg		84	63 - 120
Pyrene	3.33	3.01		mg/Kg		90	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 123*
2-Fluorobiphenyl	*79*		*22 - 122*
2-Fluorophenol (Surr)	*73*		*18 - 123*
Nitrobenzene-d5 (Surr)	*72*		*16 - 125*
Phenol-d5 (Surr)	*73*		*23 - 120*
Terphenyl-d14 (Surr)	*84*		*25 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870137/3-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	3.14		mg/Kg		94	59 - 120	3	30
1,2,4,5-Tetrachlorobenzene			3.33	3.23		mg/Kg		97	60 - 120	3	30
1,4-Dioxane			3.33	2.59		mg/Kg		78	21 - 120	2	30
2,2'-oxybis[1-chloropropane]			3.33	2.39		mg/Kg		72	49 - 126	2	30
2,3,4,6-Tetrachlorophenol			3.33	3.10		mg/Kg		93	54 - 120	3	30
2,4,5-Trichlorophenol			3.33	3.14		mg/Kg		94	59 - 120	4	30
2,4,6-Trichlorophenol			3.33	3.01		mg/Kg		90	58 - 120	3	30
2,4-Dichlorophenol			3.33	3.00		mg/Kg		90	66 - 120	4	30
2,4-Dimethylphenol			3.33	2.78		mg/Kg		83	67 - 120	4	30
2,4-Dinitrophenol			6.67	6.46		mg/Kg		97	36 - 129	6	30
2,4-Dinitrotoluene			3.33	3.17		mg/Kg		95	65 - 124	5	30
2,6-Dinitrotoluene			3.33	3.17		mg/Kg		95	67 - 121	3	30
2-Chloronaphthalene			3.33	3.13		mg/Kg		94	60 - 120	4	30
2-Chlorophenol			3.33	2.81		mg/Kg		84	63 - 120	3	30
2-Methylnaphthalene			3.33	2.58		mg/Kg		77	64 - 120	4	30
2-Methylphenol			3.33	2.82		mg/Kg		85	63 - 120	5	30
2-Nitroaniline			3.33	2.52		mg/Kg		76	48 - 120	4	30
2-Nitrophenol			3.33	3.00		mg/Kg		90	64 - 120	5	30
3 & 4 Methylphenol			3.33	2.87		mg/Kg		86	61 - 120	4	30
3,3'-Dichlorobenzidine			3.33	3.38		mg/Kg		101	13 - 136	5	30
3-Nitroaniline			3.33	2.82		mg/Kg		85	39 - 122	4	30
4,6-Dinitro-2-methylphenol			6.67	6.50		mg/Kg		97	50 - 136	5	30
4-Bromophenyl phenyl ether			3.33	3.18		mg/Kg		95	67 - 120	3	30
4-Chloro-3-methylphenol			3.33	2.87		mg/Kg		86	66 - 120	2	30
4-Chloroaniline			3.33	2.68		mg/Kg		80	15 - 128	0	30
4-Chlorophenyl phenyl ether			3.33	3.05		mg/Kg		91	62 - 120	3	30
4-Methylphenol			3.33	2.87		mg/Kg		86	61 - 120	4	30
4-Nitroaniline			3.33	2.71		mg/Kg		81	55 - 120	7	30
4-Nitrophenol			6.67	5.48		mg/Kg		82	52 - 123	9	30
Acenaphthene			3.33	2.72		mg/Kg		82	49 - 120	3	30
Acenaphthylene			3.33	2.90		mg/Kg		87	64 - 120	3	30
Acetophenone			3.33	2.64		mg/Kg		79	61 - 120	4	30
Anthracene			3.33	2.96		mg/Kg		89	67 - 120	4	30
Atrazine			1.33	1.28		mg/Kg		96	29 - 150	4	30
Benzaldehyde			1.33	1.04		mg/Kg		78	34 - 150	2	30
Benzo[a]anthracene			3.33	3.12		mg/Kg		94	62 - 120	6	30
Benzo[a]pyrene			3.33	2.92		mg/Kg		88	73 - 123	6	30
Benzo[b]fluoranthene			3.33	3.12		mg/Kg		94	70 - 125	6	30
Benzo[g,h,i]perylene			3.33	3.39		mg/Kg		102	66 - 120	7	30
Benzo[k]fluoranthene			3.33	3.10		mg/Kg		93	67 - 122	6	30
Bis(2-chloroethoxy)methane			3.33	2.84		mg/Kg		85	62 - 120	5	30
Bis(2-chloroethyl)ether			3.33	2.80		mg/Kg		84	60 - 120	3	30
Bis(2-ethylhexyl) phthalate			3.33	3.30		mg/Kg		99	59 - 125	4	30
Butyl benzyl phthalate			3.33	3.34		mg/Kg		100	62 - 127	4	30
Caprolactam			1.33	1.17		mg/Kg		87	36 - 150	4	30
Carbazole			3.33	2.97		mg/Kg		89	64 - 120	4	30
Chrysene			3.33	2.87		mg/Kg		86	63 - 120	4	30
Dibenz(a,h)anthracene			3.33	3.54		mg/Kg		106	66 - 128	5	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870137/3-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			3.33	3.04		mg/Kg		91	61 - 120	2	30
Diethyl phthalate			3.33	2.96		mg/Kg		89	63 - 120	3	30
Dimethyl phthalate			3.33	3.15		mg/Kg		95	65 - 120	4	30
Di-n-butyl phthalate			3.33	3.08		mg/Kg		92	66 - 120	4	30
Di-n-octyl phthalate			3.33	3.25		mg/Kg		97	65 - 133	5	30
Fluoranthene			3.33	2.91		mg/Kg		87	61 - 120	4	30
Fluorene			3.33	3.05		mg/Kg		91	60 - 120	4	30
Hexachlorobenzene			3.33	3.13		mg/Kg		94	66 - 120	5	30
Hexachlorobutadiene			3.33	2.95		mg/Kg		89	62 - 120	5	30
Hexachlorocyclopentadiene			3.33	2.91		mg/Kg		87	38 - 120	3	30
Hexachloroethane			3.33	2.82		mg/Kg		85	61 - 120	3	30
Indeno[1,2,3-cd]pyrene			3.33	3.84		mg/Kg		115	62 - 130	7	30
Isophorone			3.33	2.83		mg/Kg		85	67 - 120	4	30
Naphthalene			3.33	2.88		mg/Kg		86	63 - 120	4	30
Nitrobenzene			3.33	2.80		mg/Kg		84	63 - 120	4	30
N-Nitrosodi-n-propylamine			3.33	2.64		mg/Kg		79	61 - 120	3	30
N-Nitrosodiphenylamine			3.33	3.04		mg/Kg		91	63 - 120	4	30
Pentachlorophenol			6.67	5.35		mg/Kg		80	37 - 126	6	30
Phenanthrene			3.33	2.94		mg/Kg		88	66 - 120	3	30
Phenol			3.33	2.87		mg/Kg		86	63 - 120	3	30
Pyrene			3.33	3.18		mg/Kg		95	61 - 121	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*10 - 123*
2-Fluorobiphenyl	*81*		*22 - 122*
2-Fluorophenol (Surr)	*76*		*18 - 123*
Nitrobenzene-d5 (Surr)	*74*		*16 - 125*
Phenol-d5 (Surr)	*75*		*23 - 120*
Terphenyl-d14 (Surr)	*86*		*25 - 126*

Lab Sample ID: 460-266779-B-1-B MS
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.35	U	3.54	3.24		mg/Kg	☼	92	59 - 120
1,2,4,5-Tetrachlorobenzene	0.35	U	3.54	3.29		mg/Kg	☼	93	60 - 120
1,4-Dioxane	0.035	U	3.54	2.23		mg/Kg	☼	63	21 - 120
2,2'-oxybis[1-chloropropane]	0.35	U	3.54	2.46		mg/Kg	☼	70	49 - 126
2,3,4,6-Tetrachlorophenol	0.35	U	3.54	3.13		mg/Kg	☼	89	54 - 120
2,4,5-Trichlorophenol	0.35	U	3.54	3.16		mg/Kg	☼	89	59 - 120
2,4,6-Trichlorophenol	0.14	U	3.54	3.17		mg/Kg	☼	90	58 - 120
2,4-Dichlorophenol	0.14	U	3.54	3.17		mg/Kg	☼	90	66 - 120
2,4-Dimethylphenol	0.35	U	3.54	2.98		mg/Kg	☼	84	67 - 120
2,4-Dinitrophenol	0.28	U	7.08	3.83		mg/Kg	☼	54	36 - 129
2,4-Dinitrotoluene	0.071	U	3.54	3.19		mg/Kg	☼	90	65 - 124
2,6-Dinitrotoluene	0.071	U	3.54	3.21		mg/Kg	☼	91	67 - 121
2-Chloronaphthalene	0.35	U	3.54	3.26		mg/Kg	☼	92	60 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-B MS
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	0.35	U	3.54	2.97		mg/Kg	☼	84	63 - 120
2-Methylnaphthalene	0.18	J	3.54	2.88		mg/Kg	☼	76	64 - 120
2-Methylphenol	0.35	U	3.54	2.95		mg/Kg	☼	83	63 - 120
2-Nitroaniline	0.35	U	3.54	2.63		mg/Kg	☼	74	48 - 120
2-Nitrophenol	0.35	U	3.54	3.07		mg/Kg	☼	87	64 - 120
3 & 4 Methylphenol	0.35	U	3.54	3.11		mg/Kg	☼	88	61 - 120
3,3'-Dichlorobenzidine	0.14	U	3.54	1.69		mg/Kg	☼	48	13 - 136
3-Nitroaniline	0.35	U	3.54	2.21		mg/Kg	☼	62	39 - 122
4,6-Dinitro-2-methylphenol	0.28	U	7.08	5.09		mg/Kg	☼	72	50 - 136
4-Bromophenyl phenyl ether	0.35	U	3.54	3.29		mg/Kg	☼	93	67 - 120
4-Chloro-3-methylphenol	0.35	U	3.54	3.06		mg/Kg	☼	87	66 - 120
4-Chloroaniline	0.35	U	3.54	1.54		mg/Kg	☼	43	15 - 128
4-Chlorophenyl phenyl ether	0.35	U	3.54	3.18		mg/Kg	☼	90	62 - 120
4-Methylphenol	0.35	U	3.54	3.11		mg/Kg	☼	88	61 - 120
4-Nitroaniline	0.35	U	3.54	2.58		mg/Kg	☼	73	55 - 120
4-Nitrophenol	0.71	U	7.08	5.33		mg/Kg	☼	75	52 - 123
Acenaphthene	0.35	U	3.54	2.87		mg/Kg	☼	81	49 - 120
Acenaphthylene	0.35	U	3.54	2.99		mg/Kg	☼	85	64 - 120
Acetophenone	0.35	U	3.54	2.82		mg/Kg	☼	80	61 - 120
Anthracene	0.35	U	3.54	3.06		mg/Kg	☼	86	67 - 120
Atrazine	0.14	U	1.42	1.38		mg/Kg	☼	98	29 - 150
Benzaldehyde	0.35	U	1.42	1.16	E	mg/Kg	☼	82	34 - 150
Benzo[a]anthracene	0.016	J	3.54	3.16		mg/Kg	☼	89	62 - 120
Benzo[a]pyrene	0.035	U	3.54	2.92		mg/Kg	☼	83	73 - 123
Benzo[b]fluoranthene	0.011	J	3.54	3.24		mg/Kg	☼	91	70 - 125
Benzo[g,h,i]perylene	0.35	U	3.54	3.35		mg/Kg	☼	95	66 - 120
Benzo[k]fluoranthene	0.035	U	3.54	3.09		mg/Kg	☼	87	67 - 122
Bis(2-chloroethoxy)methane	0.35	U	3.54	2.96		mg/Kg	☼	84	62 - 120
Bis(2-chloroethyl)ether	0.035	U	3.54	2.90		mg/Kg	☼	82	60 - 120
Bis(2-ethylhexyl) phthalate	0.023	J	3.54	3.42		mg/Kg	☼	96	59 - 125
Butyl benzyl phthalate	0.35	U	3.54	3.48		mg/Kg	☼	98	62 - 127
Caprolactam	0.35	U	1.42	1.30		mg/Kg	☼	92	36 - 150
Carbazole	0.35	U	3.54	2.96		mg/Kg	☼	84	64 - 120
Chrysene	0.014	J	3.54	2.89		mg/Kg	☼	81	63 - 120
Dibenz(a,h)anthracene	0.035	U	3.54	3.54		mg/Kg	☼	100	66 - 128
Dibenzofuran	0.35	U	3.54	3.18		mg/Kg	☼	90	61 - 120
Diethyl phthalate	0.35	U	3.54	3.02		mg/Kg	☼	85	63 - 120
Dimethyl phthalate	0.35	U	3.54	3.25		mg/Kg	☼	92	65 - 120
Di-n-butyl phthalate	0.35	U	3.54	3.16		mg/Kg	☼	89	66 - 120
Di-n-octyl phthalate	0.35	U	3.54	3.44		mg/Kg	☼	97	65 - 133
Fluoranthene	0.031	J	3.54	2.92		mg/Kg	☼	82	61 - 120
Fluorene	0.35	U	3.54	3.14		mg/Kg	☼	89	60 - 120
Hexachlorobenzene	0.035	U	3.54	3.21		mg/Kg	☼	91	66 - 120
Hexachlorobutadiene	0.071	U	3.54	3.00		mg/Kg	☼	85	62 - 120
Hexachlorocyclopentadiene	0.35	U	3.54	2.95		mg/Kg	☼	83	38 - 120
Hexachloroethane	0.035	U	3.54	2.91		mg/Kg	☼	82	61 - 120
Indeno[1,2,3-cd]pyrene	0.035	U	3.54	3.74		mg/Kg	☼	106	62 - 130
Isophorone	0.14	U	3.54	2.95		mg/Kg	☼	83	67 - 120
Naphthalene	0.054	J	3.54	3.05		mg/Kg	☼	85	63 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-B MS
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrobenzene	0.035	U	3.54	2.94		mg/Kg	☼	83	63 - 120
N-Nitrosodi-n-propylamine	0.035	U	3.54	2.78		mg/Kg	☼	79	61 - 120
N-Nitrosodiphenylamine	0.35	U	3.54	3.16		mg/Kg	☼	89	63 - 120
Pentachlorophenol	0.28	U	7.08	5.02		mg/Kg	☼	71	37 - 126
Phenanthrene	0.038	J	3.54	3.07		mg/Kg	☼	86	66 - 120
Phenol	0.35	U	3.54	3.08		mg/Kg	☼	87	63 - 120
Pyrene	0.027	J	3.54	3.53		mg/Kg	☼	99	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 123*
2-Fluorobiphenyl	*79*		*22 - 122*
2-Fluorophenol (Surr)	*77*		*18 - 123*
Nitrobenzene-d5 (Surr)	*72*		*16 - 125*
Phenol-d5 (Surr)	*75*		*23 - 120*
Terphenyl-d14 (Surr)	*89*		*25 - 126*

Lab Sample ID: 460-266779-B-1-C MSD
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.35	U	3.54	3.16		mg/Kg	☼	89	59 - 120	3	30
1,2,4,5-Tetrachlorobenzene	0.35	U	3.54	3.21		mg/Kg	☼	91	60 - 120	3	30
1,4-Dioxane	0.035	U	3.54	2.10		mg/Kg	☼	59	21 - 120	6	30
2,2'-oxybis[1-chloropropane]	0.35	U	3.54	2.38		mg/Kg	☼	67	49 - 126	3	30
2,3,4,6-Tetrachlorophenol	0.35	U	3.54	3.08		mg/Kg	☼	87	54 - 120	2	30
2,4,5-Trichlorophenol	0.35	U	3.54	3.12		mg/Kg	☼	88	59 - 120	1	30
2,4,6-Trichlorophenol	0.14	U	3.54	3.08		mg/Kg	☼	87	58 - 120	3	30
2,4-Dichlorophenol	0.14	U	3.54	3.14		mg/Kg	☼	89	66 - 120	1	30
2,4-Dimethylphenol	0.35	U	3.54	2.88		mg/Kg	☼	81	67 - 120	3	30
2,4-Dinitrophenol	0.28	U	7.08	3.74		mg/Kg	☼	53	36 - 129	3	30
2,4-Dinitrotoluene	0.071	U	3.54	3.16		mg/Kg	☼	89	65 - 124	1	30
2,6-Dinitrotoluene	0.071	U	3.54	3.25		mg/Kg	☼	92	67 - 121	1	30
2-Chloronaphthalene	0.35	U	3.54	3.12		mg/Kg	☼	88	60 - 120	4	30
2-Chlorophenol	0.35	U	3.54	2.91		mg/Kg	☼	82	63 - 120	2	30
2-Methylnaphthalene	0.18	J	3.54	2.87		mg/Kg	☼	76	64 - 120	0	30
2-Methylphenol	0.35	U	3.54	2.98		mg/Kg	☼	84	63 - 120	1	30
2-Nitroaniline	0.35	U	3.54	2.52		mg/Kg	☼	71	48 - 120	4	30
2-Nitrophenol	0.35	U	3.54	3.02		mg/Kg	☼	85	64 - 120	2	30
3 & 4 Methylphenol	0.35	U	3.54	3.05		mg/Kg	☼	86	61 - 120	2	30
3,3'-Dichlorobenzidine	0.14	U	3.54	1.74		mg/Kg	☼	49	13 - 136	3	30
3-Nitroaniline	0.35	U	3.54	2.21		mg/Kg	☼	63	39 - 122	0	30
4,6-Dinitro-2-methylphenol	0.28	U	7.08	4.92		mg/Kg	☼	69	50 - 136	3	30
4-Bromophenyl phenyl ether	0.35	U	3.54	3.18		mg/Kg	☼	90	67 - 120	3	30
4-Chloro-3-methylphenol	0.35	U	3.54	3.03		mg/Kg	☼	86	66 - 120	1	30
4-Chloroaniline	0.35	U	3.54	1.60		mg/Kg	☼	45	15 - 128	4	30
4-Chlorophenyl phenyl ether	0.35	U	3.54	3.12		mg/Kg	☼	88	62 - 120	2	30
4-Methylphenol	0.35	U	3.54	3.05		mg/Kg	☼	86	61 - 120	2	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-C MSD
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitroaniline	0.35	U	3.54	2.57		mg/Kg	☼	73	55 - 120	0	30
4-Nitrophenol	0.71	U	7.08	5.36		mg/Kg	☼	76	52 - 123	1	30
Acenaphthene	0.35	U	3.54	2.78		mg/Kg	☼	79	49 - 120	3	30
Acenaphthylene	0.35	U	3.54	2.97		mg/Kg	☼	84	64 - 120	1	30
Acetophenone	0.35	U	3.54	2.72		mg/Kg	☼	77	61 - 120	4	30
Anthracene	0.35	U	3.54	2.98		mg/Kg	☼	84	67 - 120	3	30
Atrazine	0.14	U	1.42	1.41		mg/Kg	☼	100	29 - 150	2	30
Benzaldehyde	0.35	U	1.42	1.16	E	mg/Kg	☼	82	34 - 150	0	30
Benzo[a]anthracene	0.016	J	3.54	3.04		mg/Kg	☼	85	62 - 120	4	30
Benzo[a]pyrene	0.035	U	3.54	2.86		mg/Kg	☼	81	73 - 123	2	30
Benzo[b]fluoranthene	0.011	J	3.54	3.18		mg/Kg	☼	90	70 - 125	2	30
Benzo[g,h,i]perylene	0.35	U	3.54	3.29		mg/Kg	☼	93	66 - 120	2	30
Benzo[k]fluoranthene	0.035	U	3.54	3.04		mg/Kg	☼	86	67 - 122	2	30
Bis(2-chloroethoxy)methane	0.35	U	3.54	2.89		mg/Kg	☼	82	62 - 120	2	30
Bis(2-chloroethyl)ether	0.035	U	3.54	2.80		mg/Kg	☼	79	60 - 120	4	30
Bis(2-ethylhexyl) phthalate	0.023	J	3.54	3.28		mg/Kg	☼	92	59 - 125	4	30
Butyl benzyl phthalate	0.35	U	3.54	3.41		mg/Kg	☼	96	62 - 127	2	30
Caprolactam	0.35	U	1.42	1.31		mg/Kg	☼	93	36 - 150	1	30
Carbazole	0.35	U	3.54	2.93		mg/Kg	☼	83	64 - 120	1	30
Chrysene	0.014	J	3.54	2.87		mg/Kg	☼	81	63 - 120	1	30
Dibenz(a,h)anthracene	0.035	U	3.54	3.48		mg/Kg	☼	98	66 - 128	2	30
Dibenzofuran	0.35	U	3.54	3.12		mg/Kg	☼	88	61 - 120	2	30
Diethyl phthalate	0.35	U	3.54	3.03		mg/Kg	☼	86	63 - 120	0	30
Dimethyl phthalate	0.35	U	3.54	3.20		mg/Kg	☼	91	65 - 120	1	30
Di-n-butyl phthalate	0.35	U	3.54	3.09		mg/Kg	☼	87	66 - 120	2	30
Di-n-octyl phthalate	0.35	U	3.54	3.27		mg/Kg	☼	92	65 - 133	5	30
Fluoranthene	0.031	J	3.54	2.91		mg/Kg	☼	81	61 - 120	0	30
Fluorene	0.35	U	3.54	3.09		mg/Kg	☼	87	60 - 120	1	30
Hexachlorobenzene	0.035	U	3.54	3.12		mg/Kg	☼	88	66 - 120	3	30
Hexachlorobutadiene	0.071	U	3.54	2.91		mg/Kg	☼	82	62 - 120	3	30
Hexachlorocyclopentadiene	0.35	U	3.54	2.81		mg/Kg	☼	79	38 - 120	5	30
Hexachloroethane	0.035	U	3.54	2.77		mg/Kg	☼	78	61 - 120	5	30
Indeno[1,2,3-cd]pyrene	0.035	U	3.54	3.68		mg/Kg	☼	104	62 - 130	2	30
Isophorone	0.14	U	3.54	2.85		mg/Kg	☼	80	67 - 120	4	30
Naphthalene	0.054	J	3.54	2.97		mg/Kg	☼	82	63 - 120	3	30
Nitrobenzene	0.035	U	3.54	2.89		mg/Kg	☼	82	63 - 120	2	30
N-Nitrosodi-n-propylamine	0.035	U	3.54	2.75		mg/Kg	☼	78	61 - 120	1	30
N-Nitrosodiphenylamine	0.35	U	3.54	3.06		mg/Kg	☼	86	63 - 120	3	30
Pentachlorophenol	0.28	U	7.08	5.24		mg/Kg	☼	74	37 - 126	4	30
Phenanthrene	0.038	J	3.54	3.02		mg/Kg	☼	84	66 - 120	2	30
Phenol	0.35	U	3.54	3.00		mg/Kg	☼	85	63 - 120	3	30
Pyrene	0.027	J	3.54	3.29		mg/Kg	☼	92	61 - 121	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 123*
2-Fluorobiphenyl	*78*		*22 - 122*
2-Fluorophenol (Surr)	*75*		*18 - 123*
Nitrobenzene-d5 (Surr)	*70*		*16 - 125*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-C MSD
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870137

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*74*		*23 - 120*
Terphenyl-d14 (Surr)	*85*		*25 - 126*

Lab Sample ID: MB 460-870226/1-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.010	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
1,4-Dioxane	0.033	U	0.033	0.029	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.034	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.042	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dichlorophenol	0.13	U	0.13	0.021	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dimethylphenol	0.33	U	0.33	0.039	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dinitrotoluene	0.067	U	0.067	0.036	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,6-Dinitrotoluene	0.067	U	0.067	0.024	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Chlorophenol	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Methylnaphthalene	0.33	U	0.33	0.0093	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Methylphenol	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Nitroaniline	0.33	U	0.33	0.025	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Nitrophenol	0.33	U	0.33	0.033	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
3 & 4 Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
3-Nitroaniline	0.33	U	0.33	0.079	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.013	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.019	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Chloroaniline	0.33	U	0.33	0.059	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Nitroaniline	0.33	U	0.33	0.038	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Acetophenone	0.33	U	0.33	0.016	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Atrazine	0.13	U	0.13	0.019	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzaldehyde	0.33	U	0.33	0.055	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		10/05/22 10:12	10/05/22 19:45	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870226/1-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.026	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Caprolactam	0.33	U	0.33	0.051	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Carbazole	0.33	U	0.33	0.013	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Dibenzofuran	0.33	U	0.33	0.011	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Diethyl phthalate	0.33	U	0.33	0.011	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Dimethyl phthalate	0.33	U	0.33	0.075	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Di-n-butyl phthalate	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachlorobenzene	0.033	U	0.033	0.016	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachloroethane	0.033	U	0.033	0.011	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Isophorone	0.13	U	0.13	0.096	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Nitrobenzene	0.033	U	0.033	0.018	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.024	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.027	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Phenol	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		10/05/22 10:12	10/05/22 19:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*10 - 123*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
2-Fluorobiphenyl	*97*		*22 - 122*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
2-Fluorophenol (Surr)	*82*		*18 - 123*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
Nitrobenzene-d5 (Surr)	*88*		*16 - 125*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
Phenol-d5 (Surr)	*81*		*23 - 120*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
Terphenyl-d14 (Surr)	*105*		*25 - 126*	*10/05/22 10:12*	*10/05/22 19:45*	*1*

Lab Sample ID: LCS 460-870226/2-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.88		mg/Kg		86	59 - 120
1,2,4,5-Tetrachlorobenzene	3.33	2.98		mg/Kg		89	60 - 120
1,4-Dioxane	3.33	1.75		mg/Kg		52	21 - 120
2,2'-oxybis[1-chloropropane]	3.33	2.27		mg/Kg		68	49 - 126
2,3,4,6-Tetrachlorophenol	3.33	3.08		mg/Kg		92	54 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870226/2-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	3.33	2.80		mg/Kg		84	59 - 120
2,4,6-Trichlorophenol	3.33	3.04		mg/Kg		91	58 - 120
2,4-Dichlorophenol	3.33	2.92		mg/Kg		88	66 - 120
2,4-Dimethylphenol	3.33	2.76		mg/Kg		83	67 - 120
2,4-Dinitrophenol	6.67	5.97		mg/Kg		90	36 - 129
2,4-Dinitrotoluene	3.33	3.32		mg/Kg		100	65 - 124
2,6-Dinitrotoluene	3.33	3.23		mg/Kg		97	67 - 121
2-Chloronaphthalene	3.33	2.87		mg/Kg		86	60 - 120
2-Chlorophenol	3.33	2.51		mg/Kg		75	63 - 120
2-Methylnaphthalene	3.33	2.53		mg/Kg		76	64 - 120
2-Methylphenol	3.33	2.52		mg/Kg		76	63 - 120
2-Nitroaniline	3.33	2.74		mg/Kg		82	48 - 120
2-Nitrophenol	3.33	2.85		mg/Kg		86	64 - 120
3 & 4 Methylphenol	3.33	2.56		mg/Kg		77	61 - 120
3,3'-Dichlorobenzidine	3.33	2.72		mg/Kg		81	13 - 136
3-Nitroaniline	3.33	2.43		mg/Kg		73	39 - 122
4,6-Dinitro-2-methylphenol	6.67	6.81		mg/Kg		102	50 - 136
4-Bromophenyl phenyl ether	3.33	2.90		mg/Kg		87	67 - 120
4-Chloro-3-methylphenol	3.33	2.87		mg/Kg		86	66 - 120
4-Chloroaniline	3.33	2.19		mg/Kg		66	15 - 128
4-Chlorophenyl phenyl ether	3.33	3.01		mg/Kg		90	62 - 120
4-Methylphenol	3.33	2.56		mg/Kg		77	61 - 120
4-Nitroaniline	3.33	2.74		mg/Kg		82	55 - 120
4-Nitrophenol	6.67	4.73		mg/Kg		71	52 - 123
Acenaphthene	3.33	2.90		mg/Kg		87	49 - 120
Acenaphthylene	3.33	2.76		mg/Kg		83	64 - 120
Acetophenone	3.33	2.44		mg/Kg		73	61 - 120
Anthracene	3.33	2.88		mg/Kg		87	67 - 120
Atrazine	1.33	2.70	*	mg/Kg		202	29 - 150
Benzaldehyde	1.33	1.43		mg/Kg		107	34 - 150
Benzo[a]anthracene	3.33	3.10		mg/Kg		93	62 - 120
Benzo[a]pyrene	3.33	3.12		mg/Kg		94	73 - 123
Benzo[b]fluoranthene	3.33	3.28		mg/Kg		98	70 - 125
Benzo[g,h,i]perylene	3.33	2.91		mg/Kg		87	66 - 120
Benzo[k]fluoranthene	3.33	3.42		mg/Kg		103	67 - 122
Bis(2-chloroethoxy)methane	3.33	2.47		mg/Kg		74	62 - 120
Bis(2-chloroethyl)ether	3.33	2.34		mg/Kg		70	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.19		mg/Kg		96	59 - 125
Butyl benzyl phthalate	3.33	3.14		mg/Kg		94	62 - 127
Caprolactam	1.33	2.59	*	mg/Kg		194	36 - 150
Carbazole	3.33	2.86		mg/Kg		86	64 - 120
Chrysene	3.33	2.86		mg/Kg		86	63 - 120
Dibenz(a,h)anthracene	3.33	3.32		mg/Kg		99	66 - 128
Dibenzofuran	3.33	3.01		mg/Kg		90	61 - 120
Diethyl phthalate	3.33	3.06		mg/Kg		92	63 - 120
Dimethyl phthalate	3.33	2.96		mg/Kg		89	65 - 120
Di-n-butyl phthalate	3.33	3.07		mg/Kg		92	66 - 120
Di-n-octyl phthalate	3.33	3.33		mg/Kg		100	65 - 133
Fluoranthene	3.33	2.96		mg/Kg		89	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870226/2-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	3.33	2.97		mg/Kg		89	60 - 120
Hexachlorobenzene	3.33	2.72		mg/Kg		82	66 - 120
Hexachlorobutadiene	3.33	2.90		mg/Kg		87	62 - 120
Hexachlorocyclopentadiene	3.33	2.49		mg/Kg		75	38 - 120
Hexachloroethane	3.33	2.41		mg/Kg		72	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	2.71		mg/Kg		81	62 - 130
Isophorone	3.33	2.60		mg/Kg		78	67 - 120
Naphthalene	3.33	2.75		mg/Kg		82	63 - 120
Nitrobenzene	3.33	2.58		mg/Kg		78	63 - 120
N-Nitrosodi-n-propylamine	3.33	2.28		mg/Kg		68	61 - 120
N-Nitrosodiphenylamine	3.33	2.82		mg/Kg		85	63 - 120
Pentachlorophenol	6.67	5.29		mg/Kg		79	37 - 126
Phenanthrene	3.33	2.86		mg/Kg		86	66 - 120
Phenol	3.33	2.50		mg/Kg		75	63 - 120
Pyrene	3.33	2.93		mg/Kg		88	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*10 - 123*
2-Fluorobiphenyl	*96*		*22 - 122*
2-Fluorophenol (Surr)	*83*		*18 - 123*
Nitrobenzene-d5 (Surr)	*88*		*16 - 125*
Phenol-d5 (Surr)	*81*		*23 - 120*
Terphenyl-d14 (Surr)	*102*		*25 - 126*

Lab Sample ID: LCSD 460-870226/3-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	2.88		mg/Kg		86	59 - 120	0	30
1,2,4,5-Tetrachlorobenzene	3.33	2.99		mg/Kg		90	60 - 120	0	30
1,4-Dioxane	3.33	1.80		mg/Kg		54	21 - 120	3	30
2,2'-oxybis[1-chloropropane]	3.33	2.34		mg/Kg		70	49 - 126	3	30
2,3,4,6-Tetrachlorophenol	3.33	3.13		mg/Kg		94	54 - 120	2	30
2,4,5-Trichlorophenol	3.33	3.06		mg/Kg		92	59 - 120	9	30
2,4,6-Trichlorophenol	3.33	3.09		mg/Kg		93	58 - 120	2	30
2,4-Dichlorophenol	3.33	2.98		mg/Kg		89	66 - 120	2	30
2,4-Dimethylphenol	3.33	2.81		mg/Kg		84	67 - 120	2	30
2,4-Dinitrophenol	6.67	6.57		mg/Kg		99	36 - 129	9	30
2,4-Dinitrotoluene	3.33	3.33		mg/Kg		100	65 - 124	0	30
2,6-Dinitrotoluene	3.33	3.24		mg/Kg		97	67 - 121	0	30
2-Chloronaphthalene	3.33	2.94		mg/Kg		88	60 - 120	2	30
2-Chlorophenol	3.33	2.61		mg/Kg		78	63 - 120	4	30
2-Methylnaphthalene	3.33	2.56		mg/Kg		77	64 - 120	1	30
2-Methylphenol	3.33	2.53		mg/Kg		76	63 - 120	0	30
2-Nitroaniline	3.33	2.82		mg/Kg		85	48 - 120	3	30
2-Nitrophenol	3.33	3.02		mg/Kg		91	64 - 120	6	30
3 & 4 Methylphenol	3.33	2.55		mg/Kg		77	61 - 120	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870226/3-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	3.33	2.77		mg/Kg		83	13 - 136	2	30
3-Nitroaniline	3.33	2.54		mg/Kg		76	39 - 122	4	30
4,6-Dinitro-2-methylphenol	6.67	7.14		mg/Kg		107	50 - 136	5	30
4-Bromophenyl phenyl ether	3.33	2.94		mg/Kg		88	67 - 120	1	30
4-Chloro-3-methylphenol	3.33	2.91		mg/Kg		87	66 - 120	1	30
4-Chloroaniline	3.33	2.12		mg/Kg		64	15 - 128	3	30
4-Chlorophenyl phenyl ether	3.33	3.07		mg/Kg		92	62 - 120	2	30
4-Methylphenol	3.33	2.55		mg/Kg		77	61 - 120	0	30
4-Nitroaniline	3.33	2.79		mg/Kg		84	55 - 120	2	30
4-Nitrophenol	6.67	4.96		mg/Kg		74	52 - 123	5	30
Acenaphthene	3.33	2.94		mg/Kg		88	49 - 120	1	30
Acenaphthylene	3.33	2.79		mg/Kg		84	64 - 120	1	30
Acetophenone	3.33	2.52		mg/Kg		76	61 - 120	3	30
Anthracene	3.33	2.90		mg/Kg		87	67 - 120	1	30
Atrazine	1.33	2.74	*	mg/Kg		206	29 - 150	2	30
Benzaldehyde	1.33	1.48		mg/Kg		111	34 - 150	4	30
Benzo[a]anthracene	3.33	3.13		mg/Kg		94	62 - 120	1	30
Benzo[a]pyrene	3.33	3.14		mg/Kg		94	73 - 123	1	30
Benzo[b]fluoranthene	3.33	3.28		mg/Kg		98	70 - 125	0	30
Benzo[g,h,i]perylene	3.33	2.91		mg/Kg		87	66 - 120	0	30
Benzo[k]fluoranthene	3.33	3.39		mg/Kg		102	67 - 122	1	30
Bis(2-chloroethoxy)methane	3.33	2.53		mg/Kg		76	62 - 120	2	30
Bis(2-chloroethyl)ether	3.33	2.37		mg/Kg		71	60 - 120	2	30
Bis(2-ethylhexyl) phthalate	3.33	3.17		mg/Kg		95	59 - 125	1	30
Butyl benzyl phthalate	3.33	3.20		mg/Kg		96	62 - 127	2	30
Caprolactam	1.33	2.73	*	mg/Kg		205	36 - 150	5	30
Carbazole	3.33	2.85		mg/Kg		86	64 - 120	0	30
Chrysene	3.33	2.87		mg/Kg		86	63 - 120	1	30
Dibenz(a,h)anthracene	3.33	3.30		mg/Kg		99	66 - 128	1	30
Dibenzofuran	3.33	3.01		mg/Kg		90	61 - 120	0	30
Diethyl phthalate	3.33	3.08		mg/Kg		93	63 - 120	1	30
Dimethyl phthalate	3.33	3.04		mg/Kg		91	65 - 120	3	30
Di-n-butyl phthalate	3.33	3.07		mg/Kg		92	66 - 120	0	30
Di-n-octyl phthalate	3.33	3.34		mg/Kg		100	65 - 133	0	30
Fluoranthene	3.33	2.97		mg/Kg		89	61 - 120	0	30
Fluorene	3.33	3.06		mg/Kg		92	60 - 120	3	30
Hexachlorobenzene	3.33	2.70		mg/Kg		81	66 - 120	1	30
Hexachlorobutadiene	3.33	2.98		mg/Kg		89	62 - 120	3	30
Hexachlorocyclopentadiene	3.33	2.55		mg/Kg		77	38 - 120	3	30
Hexachloroethane	3.33	2.48		mg/Kg		74	61 - 120	3	30
Indeno[1,2,3-cd]pyrene	3.33	2.98		mg/Kg		89	62 - 130	10	30
Isophorone	3.33	2.65		mg/Kg		80	67 - 120	2	30
Naphthalene	3.33	2.86		mg/Kg		86	63 - 120	4	30
Nitrobenzene	3.33	2.66		mg/Kg		80	63 - 120	3	30
N-Nitrosodi-n-propylamine	3.33	2.37		mg/Kg		71	61 - 120	4	30
N-Nitrosodiphenylamine	3.33	2.83		mg/Kg		85	63 - 120	0	30
Pentachlorophenol	6.67	5.40		mg/Kg		81	37 - 126	2	30
Phenanthrene	3.33	2.86		mg/Kg		86	66 - 120	0	30
Phenol	3.33	2.55		mg/Kg		77	63 - 120	2	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870226/3-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870226

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene			3.33	2.99		mg/Kg		90	61 - 121	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*10 - 123*
2-Fluorobiphenyl	*100*		*22 - 122*
2-Fluorophenol (Surr)	*87*		*18 - 123*
Nitrobenzene-d5 (Surr)	*91*		*16 - 125*
Phenol-d5 (Surr)	*85*		*23 - 120*
Terphenyl-d14 (Surr)	*106*		*25 - 126*

Lab Sample ID: 460-266802-E-4-A MS
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.39	U	3.92	3.30		mg/Kg	☼	84	59 - 120
1,2,4,5-Tetrachlorobenzene	0.39	U	3.92	3.43		mg/Kg	☼	88	60 - 120
1,4-Dioxane	0.039	U	3.92	1.86		mg/Kg	☼	47	21 - 120
2,2'-oxybis[1-chloropropane]	0.39	U	3.92	2.63		mg/Kg	☼	67	49 - 126
2,3,4,6-Tetrachlorophenol	0.39	U	3.92	3.65		mg/Kg	☼	93	54 - 120
2,4,5-Trichlorophenol	0.39	U	3.92	3.45		mg/Kg	☼	88	59 - 120
2,4,6-Trichlorophenol	0.16	U	3.92	3.63		mg/Kg	☼	93	58 - 120
2,4-Dichlorophenol	0.16	U	3.92	3.39		mg/Kg	☼	87	66 - 120
2,4-Dimethylphenol	0.39	U	3.92	3.18		mg/Kg	☼	81	67 - 120
2,4-Dinitrophenol	0.31	U	7.84	4.77		mg/Kg	☼	61	36 - 129
2,4-Dinitrotoluene	0.079	U	3.92	3.93		mg/Kg	☼	100	65 - 124
2,6-Dinitrotoluene	0.079	U	3.92	3.85		mg/Kg	☼	98	67 - 121
2-Chloronaphthalene	0.39	U	3.92	3.36		mg/Kg	☼	86	60 - 120
2-Chlorophenol	0.39	U	3.92	2.98		mg/Kg	☼	76	63 - 120
2-Methylnaphthalene	0.39	U	3.92	2.91		mg/Kg	☼	74	64 - 120
2-Methylphenol	0.39	U	3.92	2.97		mg/Kg	☼	76	63 - 120
2-Nitroaniline	0.39	U	3.92	3.29		mg/Kg	☼	84	48 - 120
2-Nitrophenol	0.39	U	3.92	3.35		mg/Kg	☼	85	64 - 120
3 & 4 Methylphenol	0.39	U	3.92	2.94		mg/Kg	☼	75	61 - 120
3,3'-Dichlorobenzidine	0.16	U	3.92	3.55		mg/Kg	☼	91	13 - 136
3-Nitroaniline	0.39	U	3.92	3.32		mg/Kg	☼	85	39 - 122
4,6-Dinitro-2-methylphenol	0.31	U	7.84	7.22		mg/Kg	☼	92	50 - 136
4-Bromophenyl phenyl ether	0.39	U	3.92	3.34		mg/Kg	☼	85	67 - 120
4-Chloro-3-methylphenol	0.39	U	3.92	3.37		mg/Kg	☼	86	66 - 120
4-Chloroaniline	0.39	U	3.92	2.96		mg/Kg	☼	76	15 - 128
4-Chlorophenyl phenyl ether	0.39	U	3.92	3.54		mg/Kg	☼	90	62 - 120
4-Methylphenol	0.39	U	3.92	2.94		mg/Kg	☼	75	61 - 120
4-Nitroaniline	0.39	U	3.92	3.31		mg/Kg	☼	85	55 - 120
4-Nitrophenol	0.79	U	7.84	5.75		mg/Kg	☼	73	52 - 123
Acenaphthene	0.39	U	3.92	3.37		mg/Kg	☼	86	49 - 120
Acenaphthylene	0.39	U	3.92	3.20		mg/Kg	☼	82	64 - 120
Acetophenone	0.39	U	3.92	2.87		mg/Kg	☼	73	61 - 120
Anthracene	0.39	U	3.92	3.30		mg/Kg	☼	84	67 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266802-E-4-A MS
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	0.16	U *	1.57	2.97	E *	mg/Kg	☼	189	29 - 150
Benzaldehyde	0.39	U	1.57	1.28	E	mg/Kg	☼	82	34 - 150
Benzo[a]anthracene	0.039	U	3.92	3.48		mg/Kg	☼	89	62 - 120
Benzo[a]pyrene	0.039	U	3.92	3.43		mg/Kg	☼	87	73 - 123
Benzo[b]fluoranthene	0.039	U	3.92	3.72		mg/Kg	☼	95	70 - 125
Benzo[g,h,i]perylene	0.39	U	3.92	3.25		mg/Kg	☼	83	66 - 120
Benzo[k]fluoranthene	0.039	U	3.92	3.80		mg/Kg	☼	97	67 - 122
Bis(2-chloroethoxy)methane	0.39	U	3.92	2.87		mg/Kg	☼	73	62 - 120
Bis(2-chloroethyl)ether	0.039	U	3.92	2.69		mg/Kg	☼	68	60 - 120
Bis(2-ethylhexyl) phthalate	0.39	U	3.92	3.61		mg/Kg	☼	92	59 - 125
Butyl benzyl phthalate	0.39	U	3.92	3.60		mg/Kg	☼	92	62 - 127
Caprolactam	0.39	U *	1.57	2.72	E *	mg/Kg	☼	173	36 - 150
Carbazole	0.39	U	3.92	3.27		mg/Kg	☼	83	64 - 120
Chrysene	0.39	U	3.92	3.29		mg/Kg	☼	84	63 - 120
Dibenz(a,h)anthracene	0.039	U	3.92	3.64		mg/Kg	☼	93	66 - 128
Dibenzofuran	0.39	U	3.92	3.51		mg/Kg	☼	90	61 - 120
Diethyl phthalate	0.39	U	3.92	3.56		mg/Kg	☼	91	63 - 120
Dimethyl phthalate	0.39	U	3.92	3.51		mg/Kg	☼	90	65 - 120
Di-n-butyl phthalate	0.39	U	3.92	3.48		mg/Kg	☼	89	66 - 120
Di-n-octyl phthalate	0.39	U	3.92	3.72		mg/Kg	☼	95	65 - 133
Fluoranthene	0.39	U	3.92	3.33		mg/Kg	☼	85	61 - 120
Fluorene	0.39	U	3.92	3.54		mg/Kg	☼	90	60 - 120
Hexachlorobenzene	0.039	U	3.92	3.06		mg/Kg	☼	78	66 - 120
Hexachlorobutadiene	0.079	U	3.92	3.26		mg/Kg	☼	83	62 - 120
Hexachlorocyclopentadiene	0.39	U	3.92	2.91		mg/Kg	☼	74	38 - 120
Hexachloroethane	0.039	U	3.92	2.76		mg/Kg	☼	70	61 - 120
Indeno[1,2,3-cd]pyrene	0.039	U	3.92	3.41		mg/Kg	☼	87	62 - 130
Isophorone	0.16	U	3.92	3.03		mg/Kg	☼	77	67 - 120
Naphthalene	0.39	U	3.92	3.16		mg/Kg	☼	81	63 - 120
Nitrobenzene	0.039	U	3.92	3.07		mg/Kg	☼	78	63 - 120
N-Nitrosodi-n-propylamine	0.039	U	3.92	2.72		mg/Kg	☼	69	61 - 120
N-Nitrosodiphenylamine	0.39	U	3.92	3.28		mg/Kg	☼	84	63 - 120
Pentachlorophenol	0.31	U	7.84	6.17		mg/Kg	☼	79	37 - 126
Phenanthrene	0.39	U	3.92	3.28		mg/Kg	☼	84	66 - 120
Phenol	0.39	U	3.92	2.97		mg/Kg	☼	76	63 - 120
Pyrene	0.39	U	3.92	3.43		mg/Kg	☼	87	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*10 - 123*
2-Fluorobiphenyl	*104*		*22 - 122*
2-Fluorophenol (Surr)	*89*		*18 - 123*
Nitrobenzene-d5 (Surr)	*92*		*16 - 125*
Phenol-d5 (Surr)	*89*		*23 - 120*
Terphenyl-d14 (Surr)	*109*		*25 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266802-E-4-B MSD
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.39	U	3.92	3.30		mg/Kg	☼	84	59 - 120	0	30
1,2,4,5-Tetrachlorobenzene	0.39	U	3.92	3.40		mg/Kg	☼	87	60 - 120	1	30
1,4-Dioxane	0.039	U	3.92	1.89		mg/Kg	☼	48	21 - 120	1	30
2,2'-oxybis[1-chloropropane]	0.39	U	3.92	2.56		mg/Kg	☼	65	49 - 126	3	30
2,3,4,6-Tetrachlorophenol	0.39	U	3.92	3.75		mg/Kg	☼	96	54 - 120	3	30
2,4,5-Trichlorophenol	0.39	U	3.92	3.58		mg/Kg	☼	91	59 - 120	4	30
2,4,6-Trichlorophenol	0.16	U	3.92	3.56		mg/Kg	☼	91	58 - 120	2	30
2,4-Dichlorophenol	0.16	U	3.92	3.47		mg/Kg	☼	88	66 - 120	2	30
2,4-Dimethylphenol	0.39	U	3.92	3.22		mg/Kg	☼	82	67 - 120	1	30
2,4-Dinitrophenol	0.31	U	7.84	5.09		mg/Kg	☼	65	36 - 129	7	30
2,4-Dinitrotoluene	0.079	U	3.92	3.97		mg/Kg	☼	101	65 - 124	1	30
2,6-Dinitrotoluene	0.079	U	3.92	3.83		mg/Kg	☼	98	67 - 121	0	30
2-Chloronaphthalene	0.39	U	3.92	3.36		mg/Kg	☼	86	60 - 120	0	30
2-Chlorophenol	0.39	U	3.92	2.94		mg/Kg	☼	75	63 - 120	1	30
2-Methylnaphthalene	0.39	U	3.92	2.90		mg/Kg	☼	74	64 - 120	0	30
2-Methylphenol	0.39	U	3.92	2.90		mg/Kg	☼	74	63 - 120	2	30
2-Nitroaniline	0.39	U	3.92	3.28		mg/Kg	☼	84	48 - 120	0	30
2-Nitrophenol	0.39	U	3.92	3.36		mg/Kg	☼	86	64 - 120	0	30
3 & 4 Methylphenol	0.39	U	3.92	2.90		mg/Kg	☼	74	61 - 120	1	30
3,3'-Dichlorobenzidine	0.16	U	3.92	3.55		mg/Kg	☼	91	13 - 136	0	30
3-Nitroaniline	0.39	U	3.92	3.35		mg/Kg	☼	85	39 - 122	1	30
4,6-Dinitro-2-methylphenol	0.31	U	7.84	7.85		mg/Kg	☼	100	50 - 136	8	30
4-Bromophenyl phenyl ether	0.39	U	3.92	3.38		mg/Kg	☼	86	67 - 120	1	30
4-Chloro-3-methylphenol	0.39	U	3.92	3.47		mg/Kg	☼	89	66 - 120	3	30
4-Chloroaniline	0.39	U	3.92	3.01		mg/Kg	☼	77	15 - 128	2	30
4-Chlorophenyl phenyl ether	0.39	U	3.92	3.60		mg/Kg	☼	92	62 - 120	2	30
4-Methylphenol	0.39	U	3.92	2.90		mg/Kg	☼	74	61 - 120	1	30
4-Nitroaniline	0.39	U	3.92	3.34		mg/Kg	☼	85	55 - 120	1	30
4-Nitrophenol	0.79	U	7.84	6.09		mg/Kg	☼	78	52 - 123	6	30
Acenaphthene	0.39	U	3.92	3.40		mg/Kg	☼	87	49 - 120	1	30
Acenaphthylene	0.39	U	3.92	3.26		mg/Kg	☼	83	64 - 120	2	30
Acetophenone	0.39	U	3.92	2.78		mg/Kg	☼	71	61 - 120	3	30
Anthracene	0.39	U	3.92	3.41		mg/Kg	☼	87	67 - 120	3	30
Atrazine	0.16	U *	1.57	3.03	E *	mg/Kg	☼	193	29 - 150	2	30
Benzaldehyde	0.39	U	1.57	1.79	E *	mg/Kg	☼	114	34 - 150	33	30
Benzo[a]anthracene	0.039	U	3.92	3.56		mg/Kg	☼	91	62 - 120	2	30
Benzo[a]pyrene	0.039	U	3.92	3.71		mg/Kg	☼	94	73 - 123	8	30
Benzo[b]fluoranthene	0.039	U	3.92	3.85		mg/Kg	☼	98	70 - 125	3	30
Benzo[g,h,i]perylene	0.39	U	3.92	3.41		mg/Kg	☼	87	66 - 120	5	30
Benzo[k]fluoranthene	0.039	U	3.92	3.90		mg/Kg	☼	99	67 - 122	3	30
Bis(2-chloroethoxy)methane	0.39	U	3.92	2.85		mg/Kg	☼	73	62 - 120	1	30
Bis(2-chloroethyl)ether	0.039	U	3.92	2.57		mg/Kg	☼	65	60 - 120	4	30
Bis(2-ethylhexyl) phthalate	0.39	U	3.92	3.74		mg/Kg	☼	95	59 - 125	4	30
Butyl benzyl phthalate	0.39	U	3.92	3.71		mg/Kg	☼	95	62 - 127	3	30
Caprolactam	0.39	U *	1.57	2.87	E *	mg/Kg	☼	183	36 - 150	5	30
Carbazole	0.39	U	3.92	3.33		mg/Kg	☼	85	64 - 120	2	30
Chrysene	0.39	U	3.92	3.36		mg/Kg	☼	86	63 - 120	2	30
Dibenz(a,h)anthracene	0.039	U	3.92	3.84		mg/Kg	☼	98	66 - 128	5	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266802-E-4-B MSD
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran	0.39	U	3.92	3.56		mg/Kg	☼	91	61 - 120	1	30
Diethyl phthalate	0.39	U	3.92	3.64		mg/Kg	☼	93	63 - 120	2	30
Dimethyl phthalate	0.39	U	3.92	3.55		mg/Kg	☼	90	65 - 120	1	30
Di-n-butyl phthalate	0.39	U	3.92	3.60		mg/Kg	☼	92	66 - 120	3	30
Di-n-octyl phthalate	0.39	U	3.92	3.88		mg/Kg	☼	99	65 - 133	4	30
Fluoranthene	0.39	U	3.92	3.42		mg/Kg	☼	87	61 - 120	3	30
Fluorene	0.39	U	3.92	3.59		mg/Kg	☼	92	60 - 120	1	30
Hexachlorobenzene	0.039	U	3.92	3.15		mg/Kg	☼	80	66 - 120	3	30
Hexachlorobutadiene	0.079	U	3.92	3.28		mg/Kg	☼	84	62 - 120	1	30
Hexachlorocyclopentadiene	0.39	U	3.92	2.88		mg/Kg	☼	73	38 - 120	1	30
Hexachloroethane	0.039	U	3.92	2.66		mg/Kg	☼	68	61 - 120	4	30
Indeno[1,2,3-cd]pyrene	0.039	U	3.92	3.54		mg/Kg	☼	90	62 - 130	4	30
Isophorone	0.16	U	3.92	2.99		mg/Kg	☼	76	67 - 120	1	30
Naphthalene	0.39	U	3.92	3.19		mg/Kg	☼	81	63 - 120	1	30
Nitrobenzene	0.039	U	3.92	2.94		mg/Kg	☼	75	63 - 120	4	30
N-Nitrosodi-n-propylamine	0.039	U	3.92	2.67		mg/Kg	☼	68	61 - 120	2	30
N-Nitrosodiphenylamine	0.39	U	3.92	3.32		mg/Kg	☼	85	63 - 120	1	30
Pentachlorophenol	0.31	U	7.84	6.48		mg/Kg	☼	83	37 - 126	5	30
Phenanthrene	0.39	U	3.92	3.36		mg/Kg	☼	86	66 - 120	2	30
Phenol	0.39	U	3.92	2.97		mg/Kg	☼	76	63 - 120	0	30
Pyrene	0.39	U	3.92	3.48		mg/Kg	☼	89	61 - 121	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*10 - 123*
2-Fluorobiphenyl	*97*		*22 - 122*
2-Fluorophenol (Surr)	*79*		*18 - 123*
Nitrobenzene-d5 (Surr)	*85*		*16 - 125*
Phenol-d5 (Surr)	*80*		*23 - 120*
Terphenyl-d14 (Surr)	*104*		*25 - 126*

Lab Sample ID: MB 460-870659/1-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.010	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
1,4-Dioxane	0.033	U	0.033	0.029	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.034	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.042	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dichlorophenol	0.13	U	0.13	0.021	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dimethylphenol	0.33	U	0.33	0.039	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dinitrotoluene	0.067	U	0.067	0.036	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,6-Dinitrotoluene	0.067	U	0.067	0.024	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		10/07/22 10:42	10/08/22 00:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870659/1-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Methylnaphthalene	0.33	U	0.33	0.0093	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Methylphenol	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Nitroaniline	0.33	U	0.33	0.025	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Nitrophenol	0.33	U	0.33	0.033	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
3 & 4 Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
3-Nitroaniline	0.33	U	0.33	0.079	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.013	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.019	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Chloroaniline	0.33	U	0.33	0.059	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Nitroaniline	0.33	U	0.33	0.038	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Acetophenone	0.33	U	0.33	0.016	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Atrazine	0.13	U	0.13	0.019	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzaldehyde	0.33	U	0.33	0.055	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.026	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Caprolactam	0.33	U	0.33	0.051	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Carbazole	0.33	U	0.33	0.013	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Dibenzofuran	0.33	U	0.33	0.011	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Diethyl phthalate	0.33	U	0.33	0.011	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Dimethyl phthalate	0.33	U	0.33	0.075	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Di-n-butyl phthalate	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachlorobenzene	0.033	U	0.033	0.016	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachloroethane	0.033	U	0.033	0.011	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Isophorone	0.13	U	0.13	0.096	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		10/07/22 10:42	10/08/22 00:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870659/1-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.033	U	0.033	0.018	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.024	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.027	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Phenol	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		10/07/22 10:42	10/08/22 00:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 123*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
2-Fluorobiphenyl	*67*		*22 - 122*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
2-Fluorophenol (Surr)	*63*		*18 - 123*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
Nitrobenzene-d5 (Surr)	*62*		*16 - 125*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
Phenol-d5 (Surr)	*62*		*23 - 120*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
Terphenyl-d14 (Surr)	*75*		*25 - 126*	*10/07/22 10:42*	*10/08/22 00:27*	*1*

Lab Sample ID: LCS 460-870659/2-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.78		mg/Kg		83	59 - 120
1,2,4,5-Tetrachlorobenzene	3.33	2.74		mg/Kg		82	60 - 120
1,4-Dioxane	3.33	1.62		mg/Kg		48	21 - 120
2,2'-oxybis[1-chloropropane]	3.33	2.36		mg/Kg		71	49 - 126
2,3,4,6-Tetrachlorophenol	3.33	3.07		mg/Kg		92	54 - 120
2,4,5-Trichlorophenol	3.33	2.93		mg/Kg		88	59 - 120
2,4,6-Trichlorophenol	3.33	2.98		mg/Kg		89	58 - 120
2,4-Dichlorophenol	3.33	2.84		mg/Kg		85	66 - 120
2,4-Dimethylphenol	3.33	2.52		mg/Kg		76	67 - 120
2,4-Dinitrophenol	6.67	6.91		mg/Kg		104	36 - 129
2,4-Dinitrotoluene	3.33	2.92		mg/Kg		87	65 - 124
2,6-Dinitrotoluene	3.33	3.06		mg/Kg		92	67 - 121
2-Chloronaphthalene	3.33	2.79		mg/Kg		84	60 - 120
2-Chlorophenol	3.33	2.47		mg/Kg		74	63 - 120
2-Methylnaphthalene	3.33	2.32		mg/Kg		70	64 - 120
2-Methylphenol	3.33	2.63		mg/Kg		79	63 - 120
2-Nitroaniline	3.33	2.98		mg/Kg		89	48 - 120
2-Nitrophenol	3.33	2.98		mg/Kg		90	64 - 120
3 & 4 Methylphenol	3.33	2.54		mg/Kg		76	61 - 120
3,3'-Dichlorobenzidine	3.33	2.70		mg/Kg		81	13 - 136
3-Nitroaniline	3.33	2.59		mg/Kg		78	39 - 122
4,6-Dinitro-2-methylphenol	6.67	6.16		mg/Kg		92	50 - 136
4-Bromophenyl phenyl ether	3.33	2.87		mg/Kg		86	67 - 120
4-Chloro-3-methylphenol	3.33	2.72		mg/Kg		82	66 - 120
4-Chloroaniline	3.33	1.75		mg/Kg		52	15 - 128
4-Chlorophenyl phenyl ether	3.33	2.83		mg/Kg		85	62 - 120
4-Methylphenol	3.33	2.54		mg/Kg		76	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870659/2-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroaniline	3.33	2.69		mg/Kg		81	55 - 120
4-Nitrophenol	6.67	5.56		mg/Kg		83	52 - 123
Acenaphthene	3.33	2.54		mg/Kg		76	49 - 120
Acenaphthylene	3.33	2.62		mg/Kg		79	64 - 120
Acetophenone	3.33	2.34		mg/Kg		70	61 - 120
Anthracene	3.33	2.78		mg/Kg		83	67 - 120
Atrazine	1.33	1.65		mg/Kg		124	29 - 150
Benzaldehyde	1.33	1.24		mg/Kg		93	34 - 150
Benzo[a]anthracene	3.33	2.96		mg/Kg		89	62 - 120
Benzo[a]pyrene	3.33	2.89		mg/Kg		87	73 - 123
Benzo[b]fluoranthene	3.33	3.27		mg/Kg		98	70 - 125
Benzo[g,h,i]perylene	3.33	2.62		mg/Kg		79	66 - 120
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		95	67 - 122
Bis(2-chloroethoxy)methane	3.33	2.58		mg/Kg		77	62 - 120
Bis(2-chloroethyl)ether	3.33	2.42		mg/Kg		73	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.18		mg/Kg		95	59 - 125
Butyl benzyl phthalate	3.33	3.23		mg/Kg		97	62 - 127
Caprolactam	1.33	1.40		mg/Kg		105	36 - 150
Carbazole	3.33	2.80		mg/Kg		84	64 - 120
Chrysene	3.33	2.85		mg/Kg		85	63 - 120
Dibenz(a,h)anthracene	3.33	2.68		mg/Kg		80	66 - 128
Dibenzofuran	3.33	2.82		mg/Kg		85	61 - 120
Diethyl phthalate	3.33	2.89		mg/Kg		87	63 - 120
Dimethyl phthalate	3.33	2.84		mg/Kg		85	65 - 120
Di-n-butyl phthalate	3.33	3.04		mg/Kg		91	66 - 120
Di-n-octyl phthalate	3.33	3.40		mg/Kg		102	65 - 133
Fluoranthene	3.33	2.75		mg/Kg		82	61 - 120
Fluorene	3.33	2.83		mg/Kg		85	60 - 120
Hexachlorobenzene	3.33	2.86		mg/Kg		86	66 - 120
Hexachlorobutadiene	3.33	2.59		mg/Kg		78	62 - 120
Hexachlorocyclopentadiene	3.33	2.75		mg/Kg		82	38 - 120
Hexachloroethane	3.33	2.48		mg/Kg		75	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.09		mg/Kg		93	62 - 130
Isophorone	3.33	2.58		mg/Kg		77	67 - 120
Naphthalene	3.33	2.56		mg/Kg		77	63 - 120
Nitrobenzene	3.33	2.34		mg/Kg		70	63 - 120
N-Nitrosodi-n-propylamine	3.33	2.55		mg/Kg		76	61 - 120
N-Nitrosodiphenylamine	3.33	2.76		mg/Kg		83	63 - 120
Pentachlorophenol	6.67	5.68		mg/Kg		85	37 - 126
Phenanthrene	3.33	2.80		mg/Kg		84	66 - 120
Phenol	3.33	2.44		mg/Kg		73	63 - 120
Pyrene	3.33	3.07		mg/Kg		92	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*117*		*10 - 123*
2-Fluorobiphenyl	*100*		*22 - 122*
2-Fluorophenol (Surr)	*91*		*18 - 123*
Nitrobenzene-d5 (Surr)	*92*		*16 - 125*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870659/2-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870659

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5 (Surr)	93		23 - 120
Terphenyl-d14 (Surr)	112		25 - 126

Lab Sample ID: LCSD 460-870659/3-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870659

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	2.86		mg/Kg		86	59 - 120	3	30
1,2,4,5-Tetrachlorobenzene			3.33	2.79		mg/Kg		84	60 - 120	2	30
1,4-Dioxane			3.33	1.68		mg/Kg		50	21 - 120	4	30
2,2'-oxybis[1-chloropropane]			3.33	2.32		mg/Kg		70	49 - 126	2	30
2,3,4,6-Tetrachlorophenol			3.33	3.08		mg/Kg		93	54 - 120	0	30
2,4,5-Trichlorophenol			3.33	2.97		mg/Kg		89	59 - 120	1	30
2,4,6-Trichlorophenol			3.33	2.99		mg/Kg		90	58 - 120	0	30
2,4-Dichlorophenol			3.33	2.84		mg/Kg		85	66 - 120	0	30
2,4-Dimethylphenol			3.33	2.52		mg/Kg		76	67 - 120	0	30
2,4-Dinitrophenol			6.67	6.98		mg/Kg		105	36 - 129	1	30
2,4-Dinitrotoluene			3.33	2.92		mg/Kg		88	65 - 124	0	30
2,6-Dinitrotoluene			3.33	3.07		mg/Kg		92	67 - 121	0	30
2-Chloronaphthalene			3.33	2.85		mg/Kg		85	60 - 120	2	30
2-Chlorophenol			3.33	2.53		mg/Kg		76	63 - 120	2	30
2-Methylnaphthalene			3.33	2.32		mg/Kg		70	64 - 120	0	30
2-Methylphenol			3.33	2.59		mg/Kg		78	63 - 120	1	30
2-Nitroaniline			3.33	2.97		mg/Kg		89	48 - 120	0	30
2-Nitrophenol			3.33	3.01		mg/Kg		90	64 - 120	1	30
3 & 4 Methylphenol			3.33	2.57		mg/Kg		77	61 - 120	1	30
3,3'-Dichlorobenzidine			3.33	2.66		mg/Kg		80	13 - 136	1	30
3-Nitroaniline			3.33	2.63		mg/Kg		79	39 - 122	1	30
4,6-Dinitro-2-methylphenol			6.67	6.18		mg/Kg		93	50 - 136	0	30
4-Bromophenyl phenyl ether			3.33	2.91		mg/Kg		87	67 - 120	1	30
4-Chloro-3-methylphenol			3.33	2.77		mg/Kg		83	66 - 120	1	30
4-Chloroaniline			3.33	1.74		mg/Kg		52	15 - 128	1	30
4-Chlorophenyl phenyl ether			3.33	2.86		mg/Kg		86	62 - 120	1	30
4-Methylphenol			3.33	2.57		mg/Kg		77	61 - 120	1	30
4-Nitroaniline			3.33	2.65		mg/Kg		80	55 - 120	1	30
4-Nitrophenol			6.67	5.55		mg/Kg		83	52 - 123	0	30
Acenaphthene			3.33	2.61		mg/Kg		78	49 - 120	3	30
Acenaphthylene			3.33	2.66		mg/Kg		80	64 - 120	2	30
Acetophenone			3.33	2.34		mg/Kg		70	61 - 120	0	30
Anthracene			3.33	2.81		mg/Kg		84	67 - 120	1	30
Atrazine			1.33	1.66		mg/Kg		124	29 - 150	0	30
Benzaldehyde			1.33	1.21		mg/Kg		91	34 - 150	2	30
Benzo[a]anthracene			3.33	2.98		mg/Kg		89	62 - 120	1	30
Benzo[a]pyrene			3.33	2.87		mg/Kg		86	73 - 123	1	30
Benzo[b]fluoranthene			3.33	3.21		mg/Kg		96	70 - 125	2	30
Benzo[g,h,i]perylene			3.33	2.59		mg/Kg		78	66 - 120	1	30
Benzo[k]fluoranthene			3.33	3.21		mg/Kg		96	67 - 122	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870659/3-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870659

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane			3.33	2.55		mg/Kg		76	62 - 120	1	30
Bis(2-chloroethyl)ether			3.33	2.43		mg/Kg		73	60 - 120	0	30
Bis(2-ethylhexyl) phthalate			3.33	3.19		mg/Kg		96	59 - 125	0	30
Butyl benzyl phthalate			3.33	3.26		mg/Kg		98	62 - 127	1	30
Caprolactam			1.33	1.36		mg/Kg		102	36 - 150	3	30
Carbazole			3.33	2.79		mg/Kg		84	64 - 120	0	30
Chrysene			3.33	2.82		mg/Kg		85	63 - 120	1	30
Dibenz(a,h)anthracene			3.33	2.64		mg/Kg		79	66 - 128	1	30
Dibenzofuran			3.33	2.86		mg/Kg		86	61 - 120	1	30
Diethyl phthalate			3.33	2.87		mg/Kg		86	63 - 120	1	30
Dimethyl phthalate			3.33	2.86		mg/Kg		86	65 - 120	1	30
Di-n-butyl phthalate			3.33	3.01		mg/Kg		90	66 - 120	1	30
Di-n-octyl phthalate			3.33	3.40		mg/Kg		102	65 - 133	0	30
Fluoranthene			3.33	2.73		mg/Kg		82	61 - 120	1	30
Fluorene			3.33	2.88		mg/Kg		86	60 - 120	2	30
Hexachlorobenzene			3.33	2.90		mg/Kg		87	66 - 120	1	30
Hexachlorobutadiene			3.33	2.56		mg/Kg		77	62 - 120	1	30
Hexachlorocyclopentadiene			3.33	2.80		mg/Kg		84	38 - 120	2	30
Hexachloroethane			3.33	2.48		mg/Kg		74	61 - 120	0	30
Indeno[1,2,3-cd]pyrene			3.33	3.03		mg/Kg		91	62 - 130	2	30
Isophorone			3.33	2.60		mg/Kg		78	67 - 120	1	30
Naphthalene			3.33	2.56		mg/Kg		77	63 - 120	0	30
Nitrobenzene			3.33	2.36		mg/Kg		71	63 - 120	1	30
N-Nitrosodi-n-propylamine			3.33	2.57		mg/Kg		77	61 - 120	1	30
N-Nitrosodiphenylamine			3.33	2.80		mg/Kg		84	63 - 120	1	30
Pentachlorophenol			6.67	5.62		mg/Kg		84	37 - 126	1	30
Phenanthrene			3.33	2.79		mg/Kg		84	66 - 120	0	30
Phenol			3.33	2.51		mg/Kg		75	63 - 120	3	30
Pyrene			3.33	3.07		mg/Kg		92	61 - 121	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*119*		*10 - 123*
2-Fluorobiphenyl	*101*		*22 - 122*
2-Fluorophenol (Surr)	*91*		*18 - 123*
Nitrobenzene-d5 (Surr)	*91*		*16 - 125*
Phenol-d5 (Surr)	*94*		*23 - 120*
Terphenyl-d14 (Surr)	*115*		*25 - 126*

Lab Sample ID: 460-266324-F-1-A MS
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.37	U	3.75	1.81	*	mg/Kg	☼	48	59 - 120
1,2,4,5-Tetrachlorobenzene	0.37	U	3.75	1.81	*	mg/Kg	☼	48	60 - 120
1,4-Dioxane	0.037	U	3.75	1.10		mg/Kg	☼	29	21 - 120
2,2'-oxybis[1-chloropropane]	0.37	U	3.75	1.66	*	mg/Kg	☼	44	49 - 126
2,3,4,6-Tetrachlorophenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	54 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-A MS
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	0.37	U	3.75	1.83	*	mg/Kg	☼	49	59 - 120
2,4,6-Trichlorophenol	0.15	U	3.75	1.90	*	mg/Kg	☼	51	58 - 120
2,4-Dichlorophenol	0.15	U	3.75	1.85	*	mg/Kg	☼	49	66 - 120
2,4-Dimethylphenol	0.37	U	3.75	1.69	*	mg/Kg	☼	45	67 - 120
2,4-Dinitrophenol	0.30	U	7.50	1.98	*	mg/Kg	☼	26	36 - 129
2,4-Dinitrotoluene	0.075	U	3.75	1.83	*	mg/Kg	☼	49	65 - 124
2,6-Dinitrotoluene	0.075	U	3.75	1.92	*	mg/Kg	☼	51	67 - 121
2-Chloronaphthalene	0.37	U	3.75	1.79	*	mg/Kg	☼	48	60 - 120
2-Chlorophenol	0.37	U	3.75	1.75	*	mg/Kg	☼	47	63 - 120
2-Methylnaphthalene	0.099	J	3.75	1.66	*	mg/Kg	☼	42	64 - 120
2-Methylphenol	0.37	U	3.75	1.77	*	mg/Kg	☼	47	63 - 120
2-Nitroaniline	0.37	U	3.75	1.88		mg/Kg	☼	50	48 - 120
2-Nitrophenol	0.37	U	3.75	2.02	*	mg/Kg	☼	54	64 - 120
3 & 4 Methylphenol	0.37	U	3.75	1.76	*	mg/Kg	☼	47	61 - 120
3,3'-Dichlorobenzidine	0.15	U	3.75	1.64		mg/Kg	☼	44	13 - 136
3-Nitroaniline	0.37	U	3.75	1.61		mg/Kg	☼	43	39 - 122
4,6-Dinitro-2-methylphenol	0.30	U	7.50	2.71	*	mg/Kg	☼	36	50 - 136
4-Bromophenyl phenyl ether	0.37	U	3.75	1.80	*	mg/Kg	☼	48	67 - 120
4-Chloro-3-methylphenol	0.37	U	3.75	1.78	*	mg/Kg	☼	47	66 - 120
4-Chloroaniline	0.37	U	3.75	1.46		mg/Kg	☼	39	15 - 128
4-Chlorophenyl phenyl ether	0.37	U	3.75	1.82	*	mg/Kg	☼	48	62 - 120
4-Methylphenol	0.37	U	3.75	1.76	*	mg/Kg	☼	47	61 - 120
4-Nitroaniline	0.37	U	3.75	1.55	*	mg/Kg	☼	41	55 - 120
4-Nitrophenol	0.75	U	7.50	3.53	*	mg/Kg	☼	47	52 - 123
Acenaphthene	0.37	U	3.75	1.58	*	mg/Kg	☼	42	49 - 120
Acenaphthylene	0.37	U	3.75	1.67	*	mg/Kg	☼	45	64 - 120
Acetophenone	0.37	U	3.75	1.67	*	mg/Kg	☼	44	61 - 120
Anthracene	0.20	J	3.75	1.98	*	mg/Kg	☼	47	67 - 120
Atrazine	0.15	U	1.50	1.18		mg/Kg	☼	78	29 - 150
Benzaldehyde	0.37	U	1.50	0.973		mg/Kg	☼	65	34 - 150
Benzo[a]anthracene	0.023	J	3.75	1.91	*	mg/Kg	☼	50	62 - 120
Benzo[a]pyrene	0.037	U	3.75	1.84	*	mg/Kg	☼	49	73 - 123
Benzo[b]fluoranthene	0.037	U	3.75	2.07	*	mg/Kg	☼	55	70 - 125
Benzo[g,h,i]perylene	0.37	U	3.75	1.79	*	mg/Kg	☼	48	66 - 120
Benzo[k]fluoranthene	0.037	U	3.75	1.95	*	mg/Kg	☼	52	67 - 122
Bis(2-chloroethoxy)methane	0.37	U	3.75	1.70	*	mg/Kg	☼	45	62 - 120
Bis(2-chloroethyl)ether	0.037	U	3.75	1.72	*	mg/Kg	☼	46	60 - 120
Bis(2-ethylhexyl) phthalate	0.37	U	3.75	2.14	*	mg/Kg	☼	57	59 - 125
Butyl benzyl phthalate	0.37	U	3.75	2.15	*	mg/Kg	☼	57	62 - 127
Caprolactam	0.37	U	1.50	1.06		mg/Kg	☼	70	36 - 150
Carbazole	0.075	J	3.75	1.80	*	mg/Kg	☼	46	64 - 120
Chrysene	0.017	J	3.75	1.83	*	mg/Kg	☼	48	63 - 120
Dibenz(a,h)anthracene	0.037	U	3.75	1.78	*	mg/Kg	☼	48	66 - 128
Dibenzofuran	0.013	J	3.75	1.82	*	mg/Kg	☼	48	61 - 120
Diethyl phthalate	0.37	U	3.75	1.82	*	mg/Kg	☼	49	63 - 120
Dimethyl phthalate	0.37	U	3.75	1.81	*	mg/Kg	☼	48	65 - 120
Di-n-butyl phthalate	0.37	U	3.75	1.88	*	mg/Kg	☼	50	66 - 120
Di-n-octyl phthalate	0.37	U	3.75	2.29	*	mg/Kg	☼	61	65 - 133
Fluoranthene	0.041	J	3.75	1.73	*	mg/Kg	☼	45	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-A MS
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	0.031	J	3.75	1.84	*	mg/Kg	☼	48	60 - 120
Hexachlorobenzene	0.037	U	3.75	1.82	*	mg/Kg	☼	48	66 - 120
Hexachlorobutadiene	0.075	U	3.75	1.77	*	mg/Kg	☼	47	62 - 120
Hexachlorocyclopentadiene	0.37	U	3.75	1.66		mg/Kg	☼	44	38 - 120
Hexachloroethane	0.037	U	3.75	1.80	*	mg/Kg	☼	48	61 - 120
Indeno[1,2,3-cd]pyrene	0.037	U	3.75	2.03	*	mg/Kg	☼	54	62 - 130
Isophorone	0.15	U	3.75	1.74	*	mg/Kg	☼	46	67 - 120
Naphthalene	0.096	J	3.75	1.80	*	mg/Kg	☼	46	63 - 120
Nitrobenzene	0.037	U	3.75	1.66	*	mg/Kg	☼	44	63 - 120
N-Nitrosodi-n-propylamine	0.037	U	3.75	1.77	*	mg/Kg	☼	47	61 - 120
N-Nitrosodiphenylamine	0.37	U	3.75	1.78	*	mg/Kg	☼	47	63 - 120
Pentachlorophenol	0.30	U	7.50	3.15		mg/Kg	☼	42	37 - 126
Phenanthrene	0.088	J	3.75	1.80	*	mg/Kg	☼	46	66 - 120
Phenol	0.37	U	3.75	1.72	*	mg/Kg	☼	46	63 - 120
Pyrene	0.042	J	3.75	2.06	*	mg/Kg	☼	54	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 123*
2-Fluorobiphenyl	*55*		*22 - 122*
2-Fluorophenol (Surr)	*55*		*18 - 123*
Nitrobenzene-d5 (Surr)	*53*		*16 - 125*
Phenol-d5 (Surr)	*55*		*23 - 120*
Terphenyl-d14 (Surr)	*66*		*25 - 126*

Lab Sample ID: 460-266324-F-1-B MSD
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.37	U	3.75	2.00	*	mg/Kg	☼	53	59 - 120	10	30
1,2,4,5-Tetrachlorobenzene	0.37	U	3.75	1.97	*	mg/Kg	☼	52	60 - 120	8	30
1,4-Dioxane	0.037	U	3.75	1.15		mg/Kg	☼	31	21 - 120	5	30
2,2'-oxybis[1-chloropropane]	0.37	U	3.75	1.80	*	mg/Kg	☼	48	49 - 126	8	30
2,3,4,6-Tetrachlorophenol	0.37	U	3.75	2.13		mg/Kg	☼	57	54 - 120	12	30
2,4,5-Trichlorophenol	0.37	U	3.75	2.00	*	mg/Kg	☼	53	59 - 120	9	30
2,4,6-Trichlorophenol	0.15	U	3.75	2.08	*	mg/Kg	☼	55	58 - 120	9	30
2,4-Dichlorophenol	0.15	U	3.75	2.02	*	mg/Kg	☼	54	66 - 120	9	30
2,4-Dimethylphenol	0.37	U	3.75	1.81	*	mg/Kg	☼	48	67 - 120	7	30
2,4-Dinitrophenol	0.30	U	7.50	2.58	*	mg/Kg	☼	34	36 - 129	27	30
2,4-Dinitrotoluene	0.075	U	3.75	2.02	*	mg/Kg	☼	54	65 - 124	9	30
2,6-Dinitrotoluene	0.075	U	3.75	2.09	*	mg/Kg	☼	56	67 - 121	8	30
2-Chloronaphthalene	0.37	U	3.75	1.97	*	mg/Kg	☼	53	60 - 120	10	30
2-Chlorophenol	0.37	U	3.75	1.87	*	mg/Kg	☼	50	63 - 120	7	30
2-Methylnaphthalene	0.099	J	3.75	1.82	*	mg/Kg	☼	46	64 - 120	9	30
2-Methylphenol	0.37	U	3.75	1.94	*	mg/Kg	☼	52	63 - 120	9	30
2-Nitroaniline	0.37	U	3.75	2.03		mg/Kg	☼	54	48 - 120	7	30
2-Nitrophenol	0.37	U	3.75	2.13	*	mg/Kg	☼	57	64 - 120	6	30
3 & 4 Methylphenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	61 - 120	7	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-B MSD
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	0.15	U	3.75	1.67		mg/Kg	☼	45	13 - 136	2	30
3-Nitroaniline	0.37	U	3.75	1.71		mg/Kg	☼	46	39 - 122	6	30
4,6-Dinitro-2-methylphenol	0.30	U	7.50	3.16	*	mg/Kg	☼	42	50 - 136	15	30
4-Bromophenyl phenyl ether	0.37	U	3.75	1.97	*	mg/Kg	☼	53	67 - 120	9	30
4-Chloro-3-methylphenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	66 - 120	6	30
4-Chloroaniline	0.37	U	3.75	1.50		mg/Kg	☼	40	15 - 128	3	30
4-Chlorophenyl phenyl ether	0.37	U	3.75	2.00	*	mg/Kg	☼	53	62 - 120	10	30
4-Methylphenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	61 - 120	7	30
4-Nitroaniline	0.37	U	3.75	1.65	*	mg/Kg	☼	44	55 - 120	6	30
4-Nitrophenol	0.75	U	7.50	3.89		mg/Kg	☼	52	52 - 123	10	30
Acenaphthene	0.37	U	3.75	1.75	*	mg/Kg	☼	47	49 - 120	10	30
Acenaphthylene	0.37	U	3.75	1.83	*	mg/Kg	☼	49	64 - 120	9	30
Acetophenone	0.37	U	3.75	1.80	*	mg/Kg	☼	48	61 - 120	8	30
Anthracene	0.20	J	3.75	2.11	*	mg/Kg	☼	51	67 - 120	6	30
Atrazine	0.15	U	1.50	1.27		mg/Kg	☼	85	29 - 150	8	30
Benzaldehyde	0.37	U	1.50	1.07		mg/Kg	☼	72	34 - 150	10	30
Benzo[a]anthracene	0.023	J	3.75	2.01	*	mg/Kg	☼	53	62 - 120	5	30
Benzo[a]pyrene	0.037	U	3.75	1.94	*	mg/Kg	☼	52	73 - 123	6	30
Benzo[b]fluoranthene	0.037	U	3.75	2.23	*	mg/Kg	☼	59	70 - 125	8	30
Benzo[g,h,i]perylene	0.37	U	3.75	1.93	*	mg/Kg	☼	52	66 - 120	8	30
Benzo[k]fluoranthene	0.037	U	3.75	2.10	*	mg/Kg	☼	56	67 - 122	8	30
Bis(2-chloroethoxy)methane	0.37	U	3.75	1.86	*	mg/Kg	☼	50	62 - 120	9	30
Bis(2-chloroethyl)ether	0.037	U	3.75	1.82	*	mg/Kg	☼	49	60 - 120	6	30
Bis(2-ethylhexyl) phthalate	0.37	U	3.75	2.22		mg/Kg	☼	59	59 - 125	4	30
Butyl benzyl phthalate	0.37	U	3.75	2.27	*	mg/Kg	☼	60	62 - 127	5	30
Caprolactam	0.37	U	1.50	1.04		mg/Kg	☼	69	36 - 150	1	30
Carbazole	0.075	J	3.75	1.94	*	mg/Kg	☼	50	64 - 120	7	30
Chrysene	0.017	J	3.75	1.90	*	mg/Kg	☼	50	63 - 120	4	30
Dibenz(a,h)anthracene	0.037	U	3.75	1.95	*	mg/Kg	☼	52	66 - 128	9	30
Dibenzofuran	0.013	J	3.75	2.00	*	mg/Kg	☼	53	61 - 120	9	30
Diethyl phthalate	0.37	U	3.75	1.99	*	mg/Kg	☼	53	63 - 120	9	30
Dimethyl phthalate	0.37	U	3.75	1.95	*	mg/Kg	☼	52	65 - 120	7	30
Di-n-butyl phthalate	0.37	U	3.75	2.01	*	mg/Kg	☼	54	66 - 120	7	30
Di-n-octyl phthalate	0.37	U	3.75	2.42		mg/Kg	☼	65	65 - 133	5	30
Fluoranthene	0.041	J	3.75	1.86	*	mg/Kg	☼	48	61 - 120	7	30
Fluorene	0.031	J	3.75	2.00	*	mg/Kg	☼	52	60 - 120	9	30
Hexachlorobenzene	0.037	U	3.75	1.97	*	mg/Kg	☼	53	66 - 120	8	30
Hexachlorobutadiene	0.075	U	3.75	1.91	*	mg/Kg	☼	51	62 - 120	8	30
Hexachlorocyclopentadiene	0.37	U	3.75	1.90		mg/Kg	☼	51	38 - 120	13	30
Hexachloroethane	0.037	U	3.75	1.91	*	mg/Kg	☼	51	61 - 120	6	30
Indeno[1,2,3-cd]pyrene	0.037	U	3.75	2.19	*	mg/Kg	☼	58	62 - 130	8	30
Isophorone	0.15	U	3.75	1.86	*	mg/Kg	☼	50	67 - 120	7	30
Naphthalene	0.096	J	3.75	1.99	*	mg/Kg	☼	50	63 - 120	10	30
Nitrobenzene	0.037	U	3.75	1.76	*	mg/Kg	☼	47	63 - 120	6	30
N-Nitrosodi-n-propylamine	0.037	U	3.75	1.94	*	mg/Kg	☼	52	61 - 120	9	30
N-Nitrosodiphenylamine	0.37	U	3.75	1.94	*	mg/Kg	☼	52	63 - 120	8	30
Pentachlorophenol	0.30	U	7.50	3.52		mg/Kg	☼	47	37 - 126	11	30
Phenanthrene	0.088	J	3.75	1.98	*	mg/Kg	☼	50	66 - 120	10	30
Phenol	0.37	U	3.75	1.81	*	mg/Kg	☼	48	63 - 120	5	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-B MSD
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	0.042	J	3.75	2.18	*	mg/Kg	☼	57	61 - 121	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 123*
2-Fluorobiphenyl	*60*		*22 - 122*
2-Fluorophenol (Surr)	*59*		*18 - 123*
Nitrobenzene-d5 (Surr)	*57*		*16 - 125*
Phenol-d5 (Surr)	*59*		*23 - 120*
Terphenyl-d14 (Surr)	*70*		*25 - 126*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-870105/1-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/04/22 16:51	10/05/22 04:25	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870105/1-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/04/22 16:51	10/05/22 04:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*43 - 150*	*10/04/22 16:51*	*10/05/22 04:25*	*1*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/04/22 16:51*	*10/05/22 04:25*	*1*
Tetrachloro-m-xylene	*83*		*26 - 137*	*10/04/22 16:51*	*10/05/22 04:25*	*1*
Tetrachloro-m-xylene	*77*		*26 - 137*	*10/04/22 16:51*	*10/05/22 04:25*	*1*

Lab Sample ID: LCS 460-870105/2-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.112		mg/Kg		84	64 - 132
4,4'-DDD	0.133	0.110		mg/Kg		82	64 - 132
4,4'-DDE	0.133	0.114		mg/Kg		86	71 - 137
4,4'-DDE	0.133	0.112		mg/Kg		84	71 - 137
4,4'-DDT	0.133	0.110		mg/Kg		83	55 - 138
4,4'-DDT	0.133	0.108		mg/Kg		81	55 - 138
Aldrin	0.133	0.123		mg/Kg		92	67 - 130
Aldrin	0.133	0.120		mg/Kg		90	67 - 130
alpha-BHC	0.133	0.123		mg/Kg		93	72 - 132
alpha-BHC	0.133	0.128		mg/Kg		96	72 - 132
beta-BHC	0.133	0.135		mg/Kg		101	71 - 137
beta-BHC	0.133	0.114		mg/Kg		85	71 - 137
cis-Chlordane	0.133	0.114		mg/Kg		85	63 - 136
cis-Chlordane	0.133	0.113		mg/Kg		84	63 - 136
delta-BHC	0.133	0.126		mg/Kg		94	61 - 143
delta-BHC	0.133	0.132		mg/Kg		99	61 - 143
Dieldrin	0.133	0.113		mg/Kg		84	66 - 135
Dieldrin	0.133	0.113		mg/Kg		85	66 - 135
Endosulfan I	0.133	0.113		mg/Kg		85	64 - 135
Endosulfan I	0.133	0.108		mg/Kg		81	64 - 135
Endosulfan II	0.133	0.113		mg/Kg		85	64 - 130
Endosulfan II	0.133	0.110		mg/Kg		83	64 - 130
Endosulfan sulfate	0.133	0.109		mg/Kg		82	61 - 134
Endosulfan sulfate	0.133	0.107		mg/Kg		80	61 - 134
Endrin	0.133	0.113		mg/Kg		84	63 - 136
Endrin	0.133	0.109		mg/Kg		82	63 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870105/2-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin aldehyde			0.133	0.109		mg/Kg		82	60 - 132		
Endrin aldehyde			0.133	0.101		mg/Kg		76	60 - 132		
Endrin ketone			0.133	0.120		mg/Kg		90	48 - 150		
Endrin ketone			0.133	0.115		mg/Kg		86	48 - 150		
gamma-BHC (Lindane)			0.133	0.130		mg/Kg		97	70 - 134		
gamma-BHC (Lindane)			0.133	0.129		mg/Kg		97	70 - 134		
Heptachlor			0.133	0.119		mg/Kg		89	62 - 134		
Heptachlor			0.133	0.116		mg/Kg		87	62 - 134		
Heptachlor epoxide			0.133	0.114		mg/Kg		86	65 - 127		
Heptachlor epoxide			0.133	0.112		mg/Kg		84	65 - 127		
Methoxychlor			0.133	0.104		mg/Kg		78	49 - 128		
Methoxychlor			0.133	0.0933		mg/Kg		70	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*43 - 150*
DCB Decachlorobiphenyl	*63*		*43 - 150*
Tetrachloro-m-xylene	*75*		*26 - 137*
Tetrachloro-m-xylene	*70*		*26 - 137*

Lab Sample ID: LCSD 460-870105/3-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.118		mg/Kg		89	64 - 132	6	30
4,4'-DDD			0.133	0.114		mg/Kg		85	64 - 132	3	30
4,4'-DDE			0.133	0.121		mg/Kg		91	71 - 137	6	30
4,4'-DDE			0.133	0.114		mg/Kg		86	71 - 137	2	30
4,4'-DDT			0.133	0.119		mg/Kg		89	55 - 138	8	30
4,4'-DDT			0.133	0.115		mg/Kg		87	55 - 138	6	30
Aldrin			0.133	0.129		mg/Kg		97	67 - 130	5	30
Aldrin			0.133	0.127		mg/Kg		95	67 - 130	6	30
alpha-BHC			0.133	0.128		mg/Kg		96	72 - 132	4	30
alpha-BHC			0.133	0.135		mg/Kg		101	72 - 132	5	30
beta-BHC			0.133	0.139		mg/Kg		104	71 - 137	3	30
beta-BHC			0.133	0.116		mg/Kg		87	71 - 137	2	30
cis-Chlordane			0.133	0.120		mg/Kg		90	63 - 136	6	30
cis-Chlordane			0.133	0.113		mg/Kg		85	63 - 136	1	30
delta-BHC			0.133	0.133		mg/Kg		100	61 - 143	6	30
delta-BHC			0.133	0.137		mg/Kg		103	61 - 143	3	30
Dieldrin			0.133	0.118		mg/Kg		88	66 - 135	5	30
Dieldrin			0.133	0.116		mg/Kg		87	66 - 135	3	30
Endosulfan I			0.133	0.119		mg/Kg		89	64 - 135	5	30
Endosulfan I			0.133	0.110		mg/Kg		82	64 - 135	2	30
Endosulfan II			0.133	0.119		mg/Kg		89	64 - 130	5	30
Endosulfan II			0.133	0.114		mg/Kg		85	64 - 130	3	30
Endosulfan sulfate			0.133	0.114		mg/Kg		85	61 - 134	4	30
Endosulfan sulfate			0.133	0.111		mg/Kg		83	61 - 134	4	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870105/3-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.133	0.117		mg/Kg		88	63 - 136	4	30
Endrin			0.133	0.112		mg/Kg		84	63 - 136	3	30
Endrin aldehyde			0.133	0.114		mg/Kg		86	60 - 132	5	30
Endrin aldehyde			0.133	0.103		mg/Kg		78	60 - 132	2	30
Endrin ketone			0.133	0.124		mg/Kg		93	48 - 150	3	30
Endrin ketone			0.133	0.118		mg/Kg		88	48 - 150	2	30
gamma-BHC (Lindane)			0.133	0.135		mg/Kg		101	70 - 134	4	30
gamma-BHC (Lindane)			0.133	0.133		mg/Kg		100	70 - 134	3	30
Heptachlor			0.133	0.125		mg/Kg		94	62 - 134	5	30
Heptachlor			0.133	0.122		mg/Kg		92	62 - 134	5	30
Heptachlor epoxide			0.133	0.120		mg/Kg		90	65 - 127	5	30
Heptachlor epoxide			0.133	0.114		mg/Kg		86	65 - 127	2	30
Methoxychlor			0.133	0.110		mg/Kg		83	49 - 128	6	30
Methoxychlor			0.133	0.0999		mg/Kg		75	49 - 128	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*43 - 150*
DCB Decachlorobiphenyl	*61*		*43 - 150*
Tetrachloro-m-xylene	*77*		*26 - 137*
Tetrachloro-m-xylene	*74*		*26 - 137*

Lab Sample ID: 460-266735-E-8-F MS
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0068	U	0.136	0.108		mg/Kg	☼	79	64 - 132
4,4'-DDD	0.0068	U	0.136	0.111		mg/Kg	☼	81	64 - 132
4,4'-DDE	0.0068	U	0.136	0.109		mg/Kg	☼	80	71 - 137
4,4'-DDE	0.0068	U	0.136	0.108		mg/Kg	☼	79	71 - 137
4,4'-DDT	0.0021	J	0.136	0.112		mg/Kg	☼	81	55 - 138
4,4'-DDT	0.0024	J	0.136	0.117		mg/Kg	☼	84	55 - 138
Aldrin	0.0068	U	0.136	0.119		mg/Kg	☼	87	67 - 130
Aldrin	0.0068	U	0.136	0.117		mg/Kg	☼	86	67 - 130
alpha-BHC	0.0020	U	0.136	0.120		mg/Kg	☼	88	72 - 132
alpha-BHC	0.0020	U	0.136	0.128		mg/Kg	☼	94	72 - 132
beta-BHC	0.0020	U	0.136	0.128		mg/Kg	☼	94	71 - 137
beta-BHC	0.0020	U	0.136	0.108		mg/Kg	☼	80	71 - 137
cis-Chlordane	0.0068	U	0.136	0.111		mg/Kg	☼	81	63 - 136
cis-Chlordane	0.0068	U	0.136	0.108		mg/Kg	☼	79	63 - 136
delta-BHC	0.0020	U	0.136	0.124		mg/Kg	☼	91	61 - 143
delta-BHC	0.0020	U	0.136	0.129		mg/Kg	☼	95	61 - 143
Dieldrin	0.0020	U	0.136	0.108		mg/Kg	☼	80	66 - 135
Dieldrin	0.0020	U	0.136	0.113		mg/Kg	☼	83	66 - 135
Endosulfan I	0.0068	U	0.136	0.109		mg/Kg	☼	80	64 - 135
Endosulfan I	0.0068	U	0.136	0.107		mg/Kg	☼	78	64 - 135
Endosulfan II	0.0068	U	0.136	0.110		mg/Kg	☼	81	64 - 130
Endosulfan II	0.0068	U	0.136	0.111		mg/Kg	☼	81	64 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266735-E-8-F MS
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan sulfate	0.0068	U	0.136	0.107		mg/Kg	☼	79	61 - 134
Endosulfan sulfate	0.0068	U	0.136	0.109		mg/Kg	☼	80	61 - 134
Endrin	0.0068	U	0.136	0.109		mg/Kg	☼	80	63 - 136
Endrin	0.0068	U	0.136	0.111		mg/Kg	☼	81	63 - 136
Endrin aldehyde	0.0068	U	0.136	0.106		mg/Kg	☼	78	60 - 132
Endrin aldehyde	0.0068	U	0.136	0.0997		mg/Kg	☼	73	60 - 132
Endrin ketone	0.0068	U	0.136	0.118		mg/Kg	☼	86	48 - 150
Endrin ketone	0.0068	U	0.136	0.117		mg/Kg	☼	86	48 - 150
gamma-BHC (Lindane)	0.0020	U	0.136	0.126		mg/Kg	☼	92	70 - 134
gamma-BHC (Lindane)	0.0020	U	0.136	0.126		mg/Kg	☼	93	70 - 134
Heptachlor	0.0068	U	0.136	0.117		mg/Kg	☼	86	62 - 134
Heptachlor	0.0068	U	0.136	0.118		mg/Kg	☼	87	62 - 134
Heptachlor epoxide	0.0068	U	0.136	0.111		mg/Kg	☼	81	65 - 127
Heptachlor epoxide	0.0068	U	0.136	0.109		mg/Kg	☼	80	65 - 127
Methoxychlor	0.0068	U	0.136	0.105		mg/Kg	☼	77	49 - 128
Methoxychlor	0.0068	U	0.136	0.102		mg/Kg	☼	75	49 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*43 - 150*
DCB Decachlorobiphenyl	*61*		*43 - 150*
Tetrachloro-m-xylene	*72*		*26 - 137*
Tetrachloro-m-xylene	*72*		*26 - 137*

Lab Sample ID: 460-266735-F-8-E MSD
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0068	U	0.135	0.119		mg/Kg	☼	88	64 - 132	10	30
4,4'-DDD	0.0068	U	0.135	0.124		mg/Kg	☼	92	64 - 132	11	30
4,4'-DDE	0.0068	U	0.135	0.119		mg/Kg	☼	88	71 - 137	9	30
4,4'-DDE	0.0068	U	0.135	0.122		mg/Kg	☼	91	71 - 137	12	30
4,4'-DDT	0.0021	J	0.135	0.124		mg/Kg	☼	90	55 - 138	10	30
4,4'-DDT	0.0024	J	0.135	0.130		mg/Kg	☼	94	55 - 138	11	30
Aldrin	0.0068	U	0.135	0.128		mg/Kg	☼	95	67 - 130	8	30
Aldrin	0.0068	U	0.135	0.134		mg/Kg	☼	99	67 - 130	13	30
alpha-BHC	0.0020	U	0.135	0.131		mg/Kg	☼	97	72 - 132	9	30
alpha-BHC	0.0020	U	0.135	0.142		mg/Kg	☼	105	72 - 132	10	30
beta-BHC	0.0020	U	0.135	0.139		mg/Kg	☼	103	71 - 137	9	30
beta-BHC	0.0020	U	0.135	0.122		mg/Kg	☼	90	71 - 137	12	30
cis-Chlordane	0.0068	U	0.135	0.120		mg/Kg	☼	89	63 - 136	8	30
cis-Chlordane	0.0068	U	0.135	0.122		mg/Kg	☼	90	63 - 136	12	30
delta-BHC	0.0020	U	0.135	0.135		mg/Kg	☼	100	61 - 143	8	30
delta-BHC	0.0020	U	0.135	0.146		mg/Kg	☼	109	61 - 143	13	30
Dieldrin	0.0020	U	0.135	0.119		mg/Kg	☼	88	66 - 135	9	30
Dieldrin	0.0020	U	0.135	0.126		mg/Kg	☼	93	66 - 135	11	30
Endosulfan I	0.0068	U	0.135	0.119		mg/Kg	☼	88	64 - 135	9	30
Endosulfan I	0.0068	U	0.135	0.120		mg/Kg	☼	89	64 - 135	12	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266735-F-8-E MSD
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan II	0.0068	U	0.135	0.121		mg/Kg	☼	90	64 - 130	9	30
Endosulfan II	0.0068	U	0.135	0.124		mg/Kg	☼	92	64 - 130	11	30
Endosulfan sulfate	0.0068	U	0.135	0.118		mg/Kg	☼	88	61 - 134	10	30
Endosulfan sulfate	0.0068	U	0.135	0.122		mg/Kg	☼	91	61 - 134	11	30
Endrin	0.0068	U	0.135	0.120		mg/Kg	☼	89	63 - 136	10	30
Endrin	0.0068	U	0.135	0.123		mg/Kg	☼	91	63 - 136	11	30
Endrin aldehyde	0.0068	U	0.135	0.116		mg/Kg	☼	86	60 - 132	10	30
Endrin aldehyde	0.0068	U	0.135	0.111		mg/Kg	☼	83	60 - 132	11	30
Endrin ketone	0.0068	U	0.135	0.130		mg/Kg	☼	97	48 - 150	10	30
Endrin ketone	0.0068	U	0.135	0.131		mg/Kg	☼	97	48 - 150	12	30
gamma-BHC (Lindane)	0.0020	U	0.135	0.137		mg/Kg	☼	101	70 - 134	8	30
gamma-BHC (Lindane)	0.0020	U	0.135	0.142		mg/Kg	☼	105	70 - 134	12	30
Heptachlor	0.0068	U	0.135	0.127		mg/Kg	☼	94	62 - 134	8	30
Heptachlor	0.0068	U	0.135	0.134		mg/Kg	☼	99	62 - 134	12	30
Heptachlor epoxide	0.0068	U	0.135	0.121		mg/Kg	☼	90	65 - 127	9	30
Heptachlor epoxide	0.0068	U	0.135	0.122		mg/Kg	☼	90	65 - 127	12	30
Methoxychlor	0.0068	U	0.135	0.116		mg/Kg	☼	86	49 - 128	10	30
Methoxychlor	0.0068	U	0.135	0.113		mg/Kg	☼	84	49 - 128	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*43 - 150*
DCB Decachlorobiphenyl	*71*		*43 - 150*
Tetrachloro-m-xylene	*79*		*26 - 137*
Tetrachloro-m-xylene	*80*		*26 - 137*

Lab Sample ID: MB 460-870258/1-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/05/22 12:37	10/06/22 04:16	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870258/1-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/05/22 12:37	10/06/22 04:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/05/22 12:37*	*10/06/22 04:16*	*1*
DCB Decachlorobiphenyl	*72*		*43 - 150*	*10/05/22 12:37*	*10/06/22 04:16*	*1*
Tetrachloro-m-xylene	*85*		*26 - 137*	*10/05/22 12:37*	*10/06/22 04:16*	*1*
Tetrachloro-m-xylene	*77*		*26 - 137*	*10/05/22 12:37*	*10/06/22 04:16*	*1*

Lab Sample ID: LCS 460-870258/2-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.125		mg/Kg		94	64 - 132
4,4'-DDD	0.133	0.118		mg/Kg		89	64 - 132
4,4'-DDE	0.133	0.126		mg/Kg		95	71 - 137
4,4'-DDE	0.133	0.121		mg/Kg		91	71 - 137
4,4'-DDT	0.133	0.123		mg/Kg		92	55 - 138
4,4'-DDT	0.133	0.117		mg/Kg		88	55 - 138
Aldrin	0.133	0.133		mg/Kg		100	67 - 130
Aldrin	0.133	0.131		mg/Kg		98	67 - 130
alpha-BHC	0.133	0.130		mg/Kg		98	72 - 132
alpha-BHC	0.133	0.136		mg/Kg		102	72 - 132
beta-BHC	0.133	0.143		mg/Kg		107	71 - 137
beta-BHC	0.133	0.122		mg/Kg		91	71 - 137

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870258/2-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870258

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
cis-Chlordane			0.133	0.126		mg/Kg		94	63 - 136		
cis-Chlordane			0.133	0.121		mg/Kg		90	63 - 136		
delta-BHC			0.133	0.136		mg/Kg		102	61 - 143		
delta-BHC			0.133	0.141		mg/Kg		106	61 - 143		
Dieldrin			0.133	0.124		mg/Kg		93	66 - 135		
Dieldrin			0.133	0.122		mg/Kg		91	66 - 135		
Endosulfan I			0.133	0.125		mg/Kg		93	64 - 135		
Endosulfan I			0.133	0.117		mg/Kg		88	64 - 135		
Endosulfan II			0.133	0.126		mg/Kg		95	64 - 130		
Endosulfan II			0.133	0.119		mg/Kg		89	64 - 130		
Endosulfan sulfate			0.133	0.121		mg/Kg		91	61 - 134		
Endosulfan sulfate			0.133	0.118		mg/Kg		88	61 - 134		
Endrin			0.133	0.124		mg/Kg		93	63 - 136		
Endrin			0.133	0.118		mg/Kg		88	63 - 136		
Endrin aldehyde			0.133	0.121		mg/Kg		91	60 - 132		
Endrin aldehyde			0.133	0.108		mg/Kg		81	60 - 132		
Endrin ketone			0.133	0.134		mg/Kg		100	48 - 150		
Endrin ketone			0.133	0.127		mg/Kg		95	48 - 150		
gamma-BHC (Lindane)			0.133	0.138		mg/Kg		103	70 - 134		
gamma-BHC (Lindane)			0.133	0.137		mg/Kg		103	70 - 134		
Heptachlor			0.133	0.128		mg/Kg		96	62 - 134		
Heptachlor			0.133	0.127		mg/Kg		96	62 - 134		
Heptachlor epoxide			0.133	0.125		mg/Kg		94	65 - 127		
Heptachlor epoxide			0.133	0.120		mg/Kg		90	65 - 127		
Methoxychlor			0.133	0.116		mg/Kg		87	49 - 128		
Methoxychlor			0.133	0.103		mg/Kg		77	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*72*		*43 - 150*
DCB Decachlorobiphenyl	*70*		*43 - 150*
Tetrachloro-m-xylene	*79*		*26 - 137*
Tetrachloro-m-xylene	*75*		*26 - 137*

Lab Sample ID: LCSD 460-870258/3-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870258

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.128		mg/Kg		96	64 - 132	2	30
4,4'-DDD			0.133	0.120		mg/Kg		90	64 - 132	1	30
4,4'-DDE			0.133	0.129		mg/Kg		96	71 - 137	2	30
4,4'-DDE			0.133	0.122		mg/Kg		92	71 - 137	1	30
4,4'-DDT			0.133	0.126		mg/Kg		94	55 - 138	2	30
4,4'-DDT			0.133	0.118		mg/Kg		88	55 - 138	1	30
Aldrin			0.133	0.136		mg/Kg		102	67 - 130	2	30
Aldrin			0.133	0.129		mg/Kg		97	67 - 130	1	30
alpha-BHC			0.133	0.132		mg/Kg		99	72 - 132	1	30
alpha-BHC			0.133	0.137		mg/Kg		103	72 - 132	1	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870258/3-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870258

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
beta-BHC			0.133	0.145		mg/Kg		109	71 - 137	1	30
beta-BHC			0.133	0.122		mg/Kg		91	71 - 137	0	30
cis-Chlordane			0.133	0.128		mg/Kg		96	63 - 136	2	30
cis-Chlordane			0.133	0.121		mg/Kg		91	63 - 136	0	30
delta-BHC			0.133	0.138		mg/Kg		104	61 - 143	2	30
delta-BHC			0.133	0.140		mg/Kg		105	61 - 143	1	30
Dieldrin			0.133	0.126		mg/Kg		94	66 - 135	1	30
Dieldrin			0.133	0.123		mg/Kg		92	66 - 135	1	30
Endosulfan I			0.133	0.127		mg/Kg		95	64 - 135	2	30
Endosulfan I			0.133	0.118		mg/Kg		88	64 - 135	0	30
Endosulfan II			0.133	0.128		mg/Kg		96	64 - 130	2	30
Endosulfan II			0.133	0.120		mg/Kg		90	64 - 130	1	30
Endosulfan sulfate			0.133	0.123		mg/Kg		93	61 - 134	2	30
Endosulfan sulfate			0.133	0.118		mg/Kg		88	61 - 134	0	30
Endrin			0.133	0.126		mg/Kg		95	63 - 136	2	30
Endrin			0.133	0.119		mg/Kg		89	63 - 136	1	30
Endrin aldehyde			0.133	0.123		mg/Kg		92	60 - 132	2	30
Endrin aldehyde			0.133	0.110		mg/Kg		82	60 - 132	1	30
Endrin ketone			0.133	0.136		mg/Kg		102	48 - 150	2	30
Endrin ketone			0.133	0.126		mg/Kg		94	48 - 150	1	30
gamma-BHC (Lindane)			0.133	0.140		mg/Kg		105	70 - 134	1	30
gamma-BHC (Lindane)			0.133	0.138		mg/Kg		104	70 - 134	0	30
Heptachlor			0.133	0.130		mg/Kg		98	62 - 134	1	30
Heptachlor			0.133	0.127		mg/Kg		95	62 - 134	1	30
Heptachlor epoxide			0.133	0.128		mg/Kg		96	65 - 127	2	30
Heptachlor epoxide			0.133	0.121		mg/Kg		91	65 - 127	1	30
Methoxychlor			0.133	0.118		mg/Kg		88	49 - 128	1	30
Methoxychlor			0.133	0.102		mg/Kg		76	49 - 128	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*74*		*43 - 150*
DCB Decachlorobiphenyl	*70*		*43 - 150*
Tetrachloro-m-xylene	*81*		*26 - 137*
Tetrachloro-m-xylene	*78*		*26 - 137*

Lab Sample ID: 460-266794-E-1-L MS
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.024		0.142	0.149		mg/Kg	☼	88	64 - 132
4,4'-DDD	0.024		0.142	0.143		mg/Kg	☼	84	64 - 132
4,4'-DDE	0.015		0.142	0.142		mg/Kg	☼	89	71 - 137
4,4'-DDE	0.017		0.142	0.138		mg/Kg	☼	85	71 - 137
4,4'-DDT	0.059		0.142	0.185		mg/Kg	☼	89	55 - 138
4,4'-DDT	0.062		0.142	0.191		mg/Kg	☼	90	55 - 138
Aldrin	0.0072	U	0.142	0.136		mg/Kg	☼	95	67 - 130
Aldrin	0.0072	U	0.142	0.139		mg/Kg	☼	97	67 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266794-E-1-L MS
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0021	U	0.142	0.131		mg/Kg	☼	92	72 - 132
alpha-BHC	0.0021	U	0.142	0.144		mg/Kg	☼	101	72 - 132
beta-BHC	0.0021	U	0.142	0.135		mg/Kg	☼	95	71 - 137
beta-BHC	0.0021	U	0.142	0.114		mg/Kg	☼	80	71 - 137
cis-Chlordane	0.0088		0.142	0.138		mg/Kg	☼	90	63 - 136
cis-Chlordane	0.0088		0.142	0.127		mg/Kg	☼	83	63 - 136
delta-BHC	0.0021	U	0.142	0.140		mg/Kg	☼	98	61 - 143
delta-BHC	0.0021	U	0.142	0.147		mg/Kg	☼	103	61 - 143
Dieldrin	0.0037		0.142	0.137		mg/Kg	☼	94	66 - 135
Dieldrin	0.0037		0.142	0.134		mg/Kg	☼	91	66 - 135
Endosulfan I	0.0072	U	0.142	0.125		mg/Kg	☼	88	64 - 135
Endosulfan I	0.0072	U	0.142	0.124		mg/Kg	☼	87	64 - 135
Endosulfan II	0.0072	U	0.142	0.132		mg/Kg	☼	92	64 - 130
Endosulfan II	0.0072	U	0.142	0.126		mg/Kg	☼	88	64 - 130
Endosulfan sulfate	0.0072	U	0.142	0.121		mg/Kg	☼	85	61 - 134
Endosulfan sulfate	0.0072	U	0.142	0.113		mg/Kg	☼	80	61 - 134
Endrin	0.0072	U	0.142	0.128		mg/Kg	☼	90	63 - 136
Endrin	0.0072	U	0.142	0.131		mg/Kg	☼	92	63 - 136
Endrin aldehyde	0.0072	U	0.142	0.111		mg/Kg	☼	78	60 - 132
Endrin aldehyde	0.0072	U	0.142	0.0981		mg/Kg	☼	69	60 - 132
Endrin ketone	0.0072	U	0.142	0.139		mg/Kg	☼	98	48 - 150
Endrin ketone	0.0072	U	0.142	0.144		mg/Kg	☼	101	48 - 150
gamma-BHC (Lindane)	0.0021	U	0.142	0.144		mg/Kg	☼	101	70 - 134
gamma-BHC (Lindane)	0.0021	U	0.142	0.147		mg/Kg	☼	103	70 - 134
Heptachlor	0.0072	U	0.142	0.135		mg/Kg	☼	95	62 - 134
Heptachlor	0.0072	U	0.142	0.141		mg/Kg	☼	99	62 - 134
Heptachlor epoxide	0.0072	U	0.142	0.130		mg/Kg	☼	91	65 - 127
Heptachlor epoxide	0.0072	U	0.142	0.126		mg/Kg	☼	89	65 - 127
Methoxychlor	0.0072	U	0.142	0.116		mg/Kg	☼	82	49 - 128
Methoxychlor	0.0072	U	0.142	0.120		mg/Kg	☼	84	49 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*58*		*43 - 150*
DCB Decachlorobiphenyl	*100*		*43 - 150*
Tetrachloro-m-xylene	*68*		*26 - 137*
Tetrachloro-m-xylene	*62*		*26 - 137*

Lab Sample ID: 460-266794-E-1-M MSD
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.024		0.142	0.121		mg/Kg	☼	68	64 - 132	21	30
4,4'-DDD	0.024		0.142	0.117		mg/Kg	☼	65	64 - 132	20	30
4,4'-DDE	0.015		0.142	0.114	*	mg/Kg	☼	70	71 - 137	22	30
4,4'-DDE	0.017		0.142	0.112	*	mg/Kg	☼	67	71 - 137	21	30
4,4'-DDT	0.059		0.142	0.157		mg/Kg	☼	69	55 - 138	17	30
4,4'-DDT	0.062		0.142	0.158		mg/Kg	☼	68	55 - 138	19	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266794-E-1-M MSD
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.0072	U	0.142	0.112		mg/Kg	☼	78	67 - 130	20	30
Aldrin	0.0072	U	0.142	0.112		mg/Kg	☼	79	67 - 130	21	30
alpha-BHC	0.0021	U	0.142	0.106		mg/Kg	☼	75	72 - 132	21	30
alpha-BHC	0.0021	U	0.142	0.114		mg/Kg	☼	80	72 - 132	23	30
beta-BHC	0.0021	U	0.142	0.110		mg/Kg	☼	77	71 - 137	21	30
beta-BHC	0.0021	U	0.142	0.0961	*	mg/Kg	☼	68	71 - 137	17	30
cis-Chlordane	0.0088		0.142	0.112		mg/Kg	☼	72	63 - 136	21	30
cis-Chlordane	0.0088		0.142	0.106		mg/Kg	☼	68	63 - 136	19	30
delta-BHC	0.0021	U	0.142	0.115		mg/Kg	☼	81	61 - 143	19	30
delta-BHC	0.0021	U	0.142	0.119		mg/Kg	☼	83	61 - 143	21	30
Dieldrin	0.0037		0.142	0.112		mg/Kg	☼	76	66 - 135	21	30
Dieldrin	0.0037		0.142	0.109		mg/Kg	☼	74	66 - 135	20	30
Endosulfan I	0.0072	U	0.142	0.102		mg/Kg	☼	72	64 - 135	20	30
Endosulfan I	0.0072	U	0.142	0.101		mg/Kg	☼	71	64 - 135	20	30
Endosulfan II	0.0072	U	0.142	0.107		mg/Kg	☼	75	64 - 130	21	30
Endosulfan II	0.0072	U	0.142	0.102		mg/Kg	☼	72	64 - 130	21	30
Endosulfan sulfate	0.0072	U	0.142	0.0997		mg/Kg	☼	70	61 - 134	20	30
Endosulfan sulfate	0.0072	U	0.142	0.0919		mg/Kg	☼	65	61 - 134	21	30
Endrin	0.0072	U	0.142	0.104		mg/Kg	☼	73	63 - 136	20	30
Endrin	0.0072	U	0.142	0.106		mg/Kg	☼	74	63 - 136	21	30
Endrin aldehyde	0.0072	U	0.142	0.0904		mg/Kg	☼	64	60 - 132	21	30
Endrin aldehyde	0.0072	U	0.142	0.0794	*	mg/Kg	☼	56	60 - 132	21	30
Endrin ketone	0.0072	U	0.142	0.112		mg/Kg	☼	78	48 - 150	22	30
Endrin ketone	0.0072	U	0.142	0.111		mg/Kg	☼	78	48 - 150	25	30
gamma-BHC (Lindane)	0.0021	U	0.142	0.114		mg/Kg	☼	80	70 - 134	23	30
gamma-BHC (Lindane)	0.0021	U	0.142	0.115		mg/Kg	☼	81	70 - 134	24	30
Heptachlor	0.0072	U	0.142	0.110		mg/Kg	☼	77	62 - 134	20	30
Heptachlor	0.0072	U	0.142	0.114		mg/Kg	☼	80	62 - 134	22	30
Heptachlor epoxide	0.0072	U	0.142	0.106		mg/Kg	☼	74	65 - 127	20	30
Heptachlor epoxide	0.0072	U	0.142	0.104		mg/Kg	☼	73	65 - 127	19	30
Methoxychlor	0.0072	U	0.142	0.0963		mg/Kg	☼	68	49 - 128	19	30
Methoxychlor	0.0072	U	0.142	0.0972		mg/Kg	☼	68	49 - 128	21	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*43 - 150*
DCB Decachlorobiphenyl	*60*		*43 - 150*
Tetrachloro-m-xylene	*57*		*26 - 137*
Tetrachloro-m-xylene	*50*		*26 - 137*

Lab Sample ID: MB 460-870672/1-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870672/1-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/07/22 11:51	10/10/22 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*43 - 150*	*10/07/22 11:51*	*10/10/22 08:00*	*1*
DCB Decachlorobiphenyl	*80*		*43 - 150*	*10/07/22 11:51*	*10/10/22 08:00*	*1*
Tetrachloro-m-xylene	*92*		*26 - 137*	*10/07/22 11:51*	*10/10/22 08:00*	*1*
Tetrachloro-m-xylene	*41*		*26 - 137*	*10/07/22 11:51*	*10/10/22 08:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870672/2-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.158		mg/Kg		118	64 - 132
4,4'-DDD	0.133	0.152		mg/Kg		114	64 - 132
4,4'-DDE	0.133	0.158		mg/Kg		119	71 - 137
4,4'-DDE	0.133	0.151		mg/Kg		114	71 - 137
4,4'-DDT	0.133	0.152		mg/Kg		114	55 - 138
4,4'-DDT	0.133	0.145		mg/Kg		109	55 - 138
Aldrin	0.133	0.167		mg/Kg		125	67 - 130
Aldrin	0.133	0.167		mg/Kg		125	67 - 130
alpha-BHC	0.133	0.162		mg/Kg		121	72 - 132
alpha-BHC	0.133	0.174		mg/Kg		130	72 - 132
beta-BHC	0.133	0.173		mg/Kg		130	71 - 137
beta-BHC	0.133	0.151		mg/Kg		113	71 - 137
cis-Chlordane	0.133	0.155		mg/Kg		116	63 - 136
cis-Chlordane	0.133	0.149		mg/Kg		112	63 - 136
delta-BHC	0.133	0.168		mg/Kg		126	61 - 143
delta-BHC	0.133	0.176		mg/Kg		132	61 - 143
Dieldrin	0.133	0.155		mg/Kg		116	66 - 135
Dieldrin	0.133	0.155		mg/Kg		116	66 - 135
Endosulfan I	0.133	0.153		mg/Kg		115	64 - 135
Endosulfan I	0.133	0.147		mg/Kg		111	64 - 135
Endosulfan II	0.133	0.158		mg/Kg		119	64 - 130
Endosulfan II	0.133	0.150		mg/Kg		112	64 - 130
Endosulfan sulfate	0.133	0.148		mg/Kg		111	61 - 134
Endosulfan sulfate	0.133	0.145		mg/Kg		109	61 - 134
Endrin	0.133	0.156		mg/Kg		117	63 - 136
Endrin	0.133	0.149		mg/Kg		112	63 - 136
Endrin aldehyde	0.133	0.153		mg/Kg		115	60 - 132
Endrin aldehyde	0.133	0.137		mg/Kg		103	60 - 132
Endrin ketone	0.133	0.161		mg/Kg		121	48 - 150
Endrin ketone	0.133	0.157		mg/Kg		118	48 - 150
gamma-BHC (Lindane)	0.133	0.169		mg/Kg		126	70 - 134
gamma-BHC (Lindane)	0.133	0.174		mg/Kg		130	70 - 134
Heptachlor	0.133	0.161		mg/Kg		121	62 - 134
Heptachlor	0.133	0.162		mg/Kg		122	62 - 134
Heptachlor epoxide	0.133	0.157		mg/Kg		118	65 - 127
Heptachlor epoxide	0.133	0.152		mg/Kg		114	65 - 127
Methoxychlor	0.133	0.145		mg/Kg		109	49 - 128
Methoxychlor	0.133	0.130		mg/Kg		97	49 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*43 - 150*
DCB Decachlorobiphenyl	*88*		*43 - 150*
Tetrachloro-m-xylene	*98*		*26 - 137*
Tetrachloro-m-xylene	*95*		*26 - 137*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870672/3-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870672

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.155		mg/Kg		116	64 - 132	2	30
4,4'-DDD			0.133	0.148		mg/Kg		111	64 - 132	3	30
4,4'-DDE			0.133	0.156		mg/Kg		117	71 - 137	2	30
4,4'-DDE			0.133	0.147		mg/Kg		110	71 - 137	3	30
4,4'-DDT			0.133	0.147		mg/Kg		110	55 - 138	3	30
4,4'-DDT			0.133	0.141		mg/Kg		106	55 - 138	2	30
Aldrin			0.133	0.163		mg/Kg		122	67 - 130	2	30
Aldrin			0.133	0.162		mg/Kg		122	67 - 130	3	30
alpha-BHC			0.133	0.163		mg/Kg		122	72 - 132	1	30
alpha-BHC			0.133	0.168		mg/Kg		126	72 - 132	3	30
beta-BHC			0.133	0.173		mg/Kg		130	71 - 137	0	30
beta-BHC			0.133	0.148		mg/Kg		111	71 - 137	2	30
cis-Chlordane			0.133	0.154		mg/Kg		115	63 - 136	1	30
cis-Chlordane			0.133	0.146		mg/Kg		109	63 - 136	3	30
delta-BHC			0.133	0.167		mg/Kg		125	61 - 143	0	30
delta-BHC			0.133	0.174		mg/Kg		130	61 - 143	2	30
Dieldrin			0.133	0.153		mg/Kg		115	66 - 135	1	30
Dieldrin			0.133	0.151		mg/Kg		113	66 - 135	3	30
Endosulfan I			0.133	0.153		mg/Kg		115	64 - 135	0	30
Endosulfan I			0.133	0.143		mg/Kg		107	64 - 135	3	30
Endosulfan II			0.133	0.155		mg/Kg		117	64 - 130	2	30
Endosulfan II			0.133	0.147		mg/Kg		110	64 - 130	2	30
Endosulfan sulfate			0.133	0.144		mg/Kg		108	61 - 134	3	30
Endosulfan sulfate			0.133	0.141		mg/Kg		106	61 - 134	3	30
Endrin			0.133	0.153		mg/Kg		115	63 - 136	2	30
Endrin			0.133	0.146		mg/Kg		109	63 - 136	2	30
Endrin aldehyde			0.133	0.149		mg/Kg		112	60 - 132	3	30
Endrin aldehyde			0.133	0.134		mg/Kg		100	60 - 132	3	30
Endrin ketone			0.133	0.157		mg/Kg		118	48 - 150	3	30
Endrin ketone			0.133	0.152		mg/Kg		114	48 - 150	3	30
gamma-BHC (Lindane)			0.133	0.169		mg/Kg		127	70 - 134	3	30
gamma-BHC (Lindane)			0.133	0.169		mg/Kg		127	70 - 134	0	30
Heptachlor			0.133	0.160		mg/Kg		120	62 - 134	2	30
Heptachlor			0.133	0.159		mg/Kg		120	62 - 134	1	30
Heptachlor epoxide			0.133	0.155		mg/Kg		116	65 - 127	2	30
Heptachlor epoxide			0.133	0.147		mg/Kg		110	65 - 127	3	30
Methoxychlor			0.133	0.140		mg/Kg		105	49 - 128	4	30
Methoxychlor			0.133	0.125		mg/Kg		93	49 - 128	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*43 - 150*
DCB Decachlorobiphenyl	*84*		*43 - 150*
Tetrachloro-m-xylene	*98*		*26 - 137*
Tetrachloro-m-xylene	*93*		*26 - 137*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-870100/1-A
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*
DCB Decachlorobiphenyl	*105*		*10 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*
Tetrachloro-m-xylene	*97*		*42 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*
Tetrachloro-m-xylene	*92*		*42 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*

Lab Sample ID: LCS 460-870100/2-A
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.386		mg/Kg		116	65 - 133
Aroclor 1016	0.333	0.318		mg/Kg		95	65 - 133
Aroclor 1260	0.333	0.388		mg/Kg		116	67 - 150
Aroclor 1260	0.333	0.336		mg/Kg		101	67 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*126*		*10 - 150*
DCB Decachlorobiphenyl	*117*		*10 - 150*
Tetrachloro-m-xylene	*119*		*42 - 150*
Tetrachloro-m-xylene	*95*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870100/3-A
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.325		mg/Kg		97	65 - 133	2	30
Aroclor 1016			0.333	0.325		mg/Kg		98	65 - 133	17	30
Aroclor 1260			0.333	0.317		mg/Kg		95	67 - 150	20	30
Aroclor 1260			0.333	0.308		mg/Kg		92	67 - 150	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*10 - 150*
DCB Decachlorobiphenyl	*109*		*10 - 150*
Tetrachloro-m-xylene	*102*		*42 - 150*
Tetrachloro-m-xylene	*99*		*42 - 150*

Lab Sample ID: 460-266735-E-8-D MS
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.068	U	0.340	0.308		mg/Kg	☼	91	65 - 133		
Aroclor 1016	0.068	U	0.340	0.304		mg/Kg	☼	89	65 - 133		
Aroclor 1260	0.068	U	0.340	0.303		mg/Kg	☼	89	67 - 150		
Aroclor 1260	0.068	U	0.340	0.293		mg/Kg	☼	86	67 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*10 - 150*
DCB Decachlorobiphenyl	*101*		*10 - 150*
Tetrachloro-m-xylene	*93*		*42 - 150*
Tetrachloro-m-xylene	*94*		*42 - 150*

Lab Sample ID: 460-266735-F-8-D MSD
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.068	U	0.337	0.324		mg/Kg	☼	96	65 - 133	5	30
Aroclor 1016	0.068	U	0.337	0.312		mg/Kg	☼	93	65 - 133	3	30
Aroclor 1260	0.068	U	0.337	0.320		mg/Kg	☼	95	67 - 150	5	30
Aroclor 1260	0.068	U	0.337	0.301		mg/Kg	☼	89	67 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*10 - 150*
DCB Decachlorobiphenyl	*104*		*10 - 150*
Tetrachloro-m-xylene	*99*		*42 - 150*
Tetrachloro-m-xylene	*96*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-870255/1-A
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*
Tetrachloro-m-xylene	*87*		*42 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*
Tetrachloro-m-xylene	*97*		*42 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*

Lab Sample ID: LCS 460-870255/2-A
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.340		mg/Kg		102	65 - 133
Aroclor 1016	0.333	0.321		mg/Kg		96	65 - 133
Aroclor 1260	0.333	0.355		mg/Kg		107	67 - 150
Aroclor 1260	0.333	0.337		mg/Kg		101	67 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*10 - 150*
DCB Decachlorobiphenyl	*90*		*10 - 150*
Tetrachloro-m-xylene	*99*		*42 - 150*
Tetrachloro-m-xylene	*92*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870255/3-A
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870255

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.340		mg/Kg		102	65 - 133	6	30
Aroclor 1016			0.333	0.349		mg/Kg		105	65 - 133	3	30
Aroclor 1260			0.333	0.349		mg/Kg		105	67 - 150	2	30
Aroclor 1260			0.333	0.338		mg/Kg		102	67 - 150	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*10 - 150*
DCB Decachlorobiphenyl	*95*		*10 - 150*
Tetrachloro-m-xylene	*81*		*42 - 150*
Tetrachloro-m-xylene	*93*		*42 - 150*

Lab Sample ID: 460-266794-E-1-I MS
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.072	U	0.356	0.395		mg/Kg	☼	111	65 - 133
Aroclor 1016	0.072	U	0.356	0.390		mg/Kg	☼	110	65 - 133
Aroclor 1260	0.072	U	0.356	0.445		mg/Kg	☼	125	67 - 150
Aroclor 1260	0.072	U	0.356	0.403		mg/Kg	☼	113	67 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*113*		*10 - 150*
DCB Decachlorobiphenyl	*111*		*10 - 150*
Tetrachloro-m-xylene	*90*		*42 - 150*
Tetrachloro-m-xylene	*94*		*42 - 150*

Lab Sample ID: 460-266794-E-1-J MSD
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.072	U	0.356	0.412		mg/Kg	☼	116	65 - 133	4	30
Aroclor 1016	0.072	U	0.356	0.408		mg/Kg	☼	115	65 - 133	5	30
Aroclor 1260	0.072	U	0.356	0.436		mg/Kg	☼	122	67 - 150	2	30
Aroclor 1260	0.072	U	0.356	0.404		mg/Kg	☼	114	67 - 150	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*10 - 150*
DCB Decachlorobiphenyl	*110*		*10 - 150*
Tetrachloro-m-xylene	*88*		*42 - 150*
Tetrachloro-m-xylene	*92*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-870673/1-A
Matrix: Solid
Analysis Batch: 871035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*10 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*
DCB Decachlorobiphenyl	*95*		*10 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*
Tetrachloro-m-xylene	*90*		*42 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*
Tetrachloro-m-xylene	*89*		*42 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*

Lab Sample ID: LCS 460-870673/2-A
Matrix: Solid
Analysis Batch: 871035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.390		mg/Kg		117	65 - 133
Aroclor 1016	0.333	0.369		mg/Kg		111	65 - 133
Aroclor 1260	0.333	0.407		mg/Kg		122	67 - 150
Aroclor 1260	0.333	0.349		mg/Kg		105	67 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*10 - 150*
DCB Decachlorobiphenyl	*75*		*10 - 150*
Tetrachloro-m-xylene	*72*		*42 - 150*
Tetrachloro-m-xylene	*72*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870673/3-A
Matrix: Solid
Analysis Batch: 871035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.413		mg/Kg		124	65 - 133	6	30
Aroclor 1016			0.333	0.394		mg/Kg		118	65 - 133	7	30
Aroclor 1260			0.333	0.450		mg/Kg		135	67 - 150	10	30
Aroclor 1260			0.333	0.433		mg/Kg		130	67 - 150	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*10 - 150*
DCB Decachlorobiphenyl	*85*		*10 - 150*
Tetrachloro-m-xylene	*78*		*42 - 150*
Tetrachloro-m-xylene	*79*		*42 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-870217/1-A
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Calcium	100	U	100	17.7	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Magnesium	100	U	100	10.2	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Nickel	2.0	U	2.0	0.47	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Potassium	100	U	100	16.2	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Sodium	100	U	100	45.7	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Zinc	8.0	U	8.0	3.1	mg/Kg		10/05/22 09:10	10/05/22 18:06	1

Lab Sample ID: LCSSRM 460-870217/2-A ^20
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870217

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			7690	6293		mg/Kg		81.8	45.3 - 154.7		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-870217/2-A ^20
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	111	59.91		mg/Kg		54.0	0.7 - 205.4
Arsenic	112	104.6		mg/Kg		93.4	82.0 - 118.8
Barium	154	135.7		mg/Kg		88.1	81.8 - 118.2
Beryllium	121	113.8		mg/Kg		94.0	82.2 - 118.2
Cadmium	196	178.7		mg/Kg		91.2	82.1 - 118.4
Calcium	4590	3921		mg/Kg		85.4	81.0 - 119.2
Chromium	103	93.51		mg/Kg		90.8	80.8 - 118.4
Cobalt	46.4	42.43		mg/Kg		91.4	83.2 - 116.6
Copper	70.4	68.17		mg/Kg		96.8	83.4 - 116.6
Iron	13400	11290		mg/Kg		84.2	58.2 - 141.8
Lead	73.2	66.40		mg/Kg		90.7	82.8 - 117.3
Magnesium	2240	1961	J	mg/Kg		87.5	75.4 - 125.0
Manganese	373	336.0		mg/Kg		90.1	81.5 - 118.5
Nickel	249	234.5		mg/Kg		94.2	81.9 - 118.1
Potassium	1940	1651	J	mg/Kg		85.1	68.0 - 131.4
Selenium	215	203.0		mg/Kg		94.4	78.1 - 121.9
Silver	78.5	70.48		mg/Kg		89.8	78.9 - 121.1
Sodium	132	2000	U	mg/Kg		95.1	71.4 - 129.5
Thallium	67.7	64.92		mg/Kg		95.9	80.1 - 120.1
Vanadium	177	161.4		mg/Kg		91.2	78.0 - 122.0
Zinc	360	324.5		mg/Kg		90.1	79.7 - 120.3

Lab Sample ID: 460-266735-E-8-K MS
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2820		512	3699	4	mg/Kg	☼	172	75 - 125
Antimony	1.0	U	5.12	3.21	N	mg/Kg	☼	63	75 - 125
Arsenic	1.1		10.2	10.73		mg/Kg	☼	94	75 - 125
Barium	14.6		10.2	24.56		mg/Kg	☼	97	75 - 125
Beryllium	0.20	J	5.12	5.25		mg/Kg	☼	99	75 - 125
Cadmium	1.0	U	5.12	4.89		mg/Kg	☼	95	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266735-E-8-K MS
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	606		512	1059		mg/Kg	☼	88	75 - 125
Chromium	7.9		10.2	18.58		mg/Kg	☼	105	75 - 125
Cobalt	2.6		5.12	7.75		mg/Kg	☼	101	75 - 125
Copper	7.5		10.2	19.06		mg/Kg	☼	113	75 - 125
Iron	9880		512	10270	4	mg/Kg	☼	76	75 - 125
Lead	1.9		5.12	6.99		mg/Kg	☼	99	75 - 125
Magnesium	1240		512	1797		mg/Kg	☼	108	75 - 125
Manganese	304		51.2	240.1	4	mg/Kg	☼	-125	75 - 125
Nickel	6.1		10.2	17.22		mg/Kg	☼	109	75 - 125
Potassium	376		512	1048	N	mg/Kg	☼	131	75 - 125
Selenium	1.3	U	10.2	9.78		mg/Kg	☼	96	75 - 125
Silver	0.41	U	5.12	4.77		mg/Kg	☼	93	75 - 125
Sodium	62.5	J	512	546.8		mg/Kg	☼	95	75 - 125
Thallium	0.044	J	4.10	3.88		mg/Kg	☼	94	75 - 125
Vanadium	9.9		10.2	20.76		mg/Kg	☼	106	75 - 125
Zinc	12.1		51.2	58.84		mg/Kg	☼	91	75 - 125

Lab Sample ID: 460-266735-E-8-L MSD
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	2820		507	3561	4	mg/Kg	☼	147	75 - 125	4	20
Antimony	1.0	U	5.07	3.26	N	mg/Kg	☼	64	75 - 125	1	20
Arsenic	1.1		10.1	10.98		mg/Kg	☼	97	75 - 125	2	20
Barium	14.6		10.1	23.31		mg/Kg	☼	86	75 - 125	5	20
Beryllium	0.20	J	5.07	5.36		mg/Kg	☼	102	75 - 125	2	20
Cadmium	1.0	U	5.07	4.97		mg/Kg	☼	98	75 - 125	2	20
Calcium	606		507	1111		mg/Kg	☼	100	75 - 125	5	20
Chromium	7.9		10.1	17.53		mg/Kg	☼	95	75 - 125	6	20
Cobalt	2.6		5.07	7.95		mg/Kg	☼	106	75 - 125	3	20
Copper	7.5		10.1	17.47		mg/Kg	☼	99	75 - 125	9	20
Iron	9880		507	12000	4	mg/Kg	☼	419	75 - 125	16	20
Lead	1.9		5.07	7.17		mg/Kg	☼	104	75 - 125	3	20
Magnesium	1240		507	2071	N	mg/Kg	☼	163	75 - 125	14	20
Manganese	304		50.7	271.1	4	mg/Kg	☼	-66	75 - 125	12	20
Nickel	6.1		10.1	18.24		mg/Kg	☼	120	75 - 125	6	20
Potassium	376		507	899.2		mg/Kg	☼	103	75 - 125	15	20
Selenium	1.3	U	10.1	9.70		mg/Kg	☼	96	75 - 125	1	20
Silver	0.41	U	5.07	4.86		mg/Kg	☼	96	75 - 125	2	20
Sodium	62.5	J	507	547.9		mg/Kg	☼	96	75 - 125	0	20
Thallium	0.044	J	4.05	3.93		mg/Kg	☼	96	75 - 125	1	20
Vanadium	9.9		10.1	21.79		mg/Kg	☼	117	75 - 125	5	20
Zinc	12.1		50.7	59.24		mg/Kg	☼	93	75 - 125	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266735-E-8-J DU
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	2820			2823		mg/Kg	☼			0.2	20
Antimony	1.0	U		1.0	U	mg/Kg	☼			NC	20
Arsenic	1.1			1.12		mg/Kg	☼			2	20
Barium	14.6			14.65		mg/Kg	☼			0.3	20
Beryllium	0.20	J		0.200	J	mg/Kg	☼			2	20
Cadmium	1.0	U		1.0	U	mg/Kg	☼			NC	20
Calcium	606			605.7		mg/Kg	☼			0.06	20
Chromium	7.9			7.96		mg/Kg	☼			1	20
Cobalt	2.6			2.57		mg/Kg	☼			0.5	20
Copper	7.5			7.50		mg/Kg	☼			0.6	20
Iron	9880			9862		mg/Kg	☼			0.2	20
Lead	1.9			1.90		mg/Kg	☼			0.5	20
Magnesium	1240			1246		mg/Kg	☼			0.1	20
Manganese	304			305.7		mg/Kg	☼			0.5	20
Nickel	6.1			6.10		mg/Kg	☼			0.2	20
Potassium	376			379.8		mg/Kg	☼			0.9	20
Selenium	1.3	U		1.3	U	mg/Kg	☼			NC	20
Silver	0.41	U		0.41	U	mg/Kg	☼			NC	20
Sodium	62.5	J		68.86	J	mg/Kg	☼			10	20
Thallium	0.044	J		0.0445	J	mg/Kg	☼			2	20
Vanadium	9.9			10.02		mg/Kg	☼			1	20
Zinc	12.1			12.19		mg/Kg	☼			0.6	20

Lab Sample ID: MB 460-870218/1-A
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Calcium	100	U	100	17.7	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Magnesium	100	U	100	10.2	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Nickel	2.0	U	2.0	0.47	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Potassium	100	U	100	16.2	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Sodium	100	U	100	45.7	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/05/22 09:17	10/07/22 01:00	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-870218/1-A
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	8.0	U	8.0	3.1	mg/Kg		10/05/22 09:17	10/07/22 01:00	1

Lab Sample ID: LCSSRM 460-870218/2-A ^10
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7690	7249		mg/Kg		94.3	45.3 - 154.7
Antimony	111	72.84		mg/Kg		65.6	0.7 - 205.4
Arsenic	112	120.1		mg/Kg		107.2	82.0 - 118.8
Barium	154	152.3		mg/Kg		98.9	81.8 - 118.2
Beryllium	121	120.4		mg/Kg		99.5	82.2 - 118.2
Cadmium	196	205.4		mg/Kg		104.8	82.1 - 118.4
Calcium	4590	4523		mg/Kg		98.5	81.0 - 119.2
Chromium	103	108.0		mg/Kg		104.8	80.8 - 118.4
Cobalt	46.4	48.79		mg/Kg		105.1	83.2 - 116.6
Copper	70.4	75.46		mg/Kg		107.2	83.4 - 116.6
Iron	13400	13230		mg/Kg		98.8	58.2 - 141.8
Lead	73.2	79.59		mg/Kg		108.7	82.8 - 117.3
Magnesium	2240	2267		mg/Kg		101.2	75.4 - 125.0
Manganese	373	417.0		mg/Kg		111.8	81.5 - 118.5
Nickel	249	272.3		mg/Kg		109.4	81.9 - 118.1
Potassium	1940	1888		mg/Kg		97.3	68.0 - 131.4
Selenium	215	233.8		mg/Kg		108.8	78.1 - 121.9
Silver	78.5	81.38		mg/Kg		103.7	78.9 - 121.1
Sodium	132	1000	U	mg/Kg		108.4	71.4 - 129.5
Thallium	67.7	71.46		mg/Kg		105.5	80.1 - 120.1
Vanadium	177	183.4		mg/Kg		103.6	78.0 - 122.0
Zinc	360	388.6		mg/Kg		108.0	79.7 - 120.3

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266794-E-1-D MS ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7300		534	9425	4	mg/Kg	☼	398	75 - 125
Antimony	5.3	U	5.34	2.64	J N	mg/Kg	☼	49	75 - 125
Arsenic	4.6	J	10.7	17.38		mg/Kg	☼	119	75 - 125
Barium	136		10.7	238.8	4	mg/Kg	☼	963	75 - 125
Beryllium	0.48	J	5.34	5.61		mg/Kg	☼	96	75 - 125
Cadmium	5.3	U	5.34	6.03		mg/Kg	☼	113	75 - 125
Calcium	4930		534	12480	4	mg/Kg	☼	1414	75 - 125
Chromium	17.2		10.7	30.92	N	mg/Kg	☼	129	75 - 125
Cobalt	6.8	J	5.34	12.50		mg/Kg	☼	107	75 - 125
Copper	54.9		10.7	70.64	4	mg/Kg	☼	148	75 - 125
Iron	63000		534	89570	4	mg/Kg	☼	4982	75 - 125
Lead	179		5.34	316.2	4	mg/Kg	☼	2558	75 - 125
Magnesium	1750		534	2835	N	mg/Kg	☼	203	75 - 125
Manganese	1170		53.4	1340	4	mg/Kg	☼	321	75 - 125
Nickel	13.3		10.7	28.95	N	mg/Kg	☼	146	75 - 125
Potassium	470	J	534	1184	N	mg/Kg	☼	133	75 - 125
Selenium	6.7	U	10.7	10.50		mg/Kg	☼	98	75 - 125
Silver	2.1	U	5.34	5.17		mg/Kg	☼	97	75 - 125
Sodium	534	U	534	642.8		mg/Kg	☼	120	75 - 125
Thallium	2.1	U	4.27	4.28		mg/Kg	☼	100	75 - 125
Vanadium	30.8		10.7	44.60	N	mg/Kg	☼	129	75 - 125
Zinc	184		53.4	286.2	N	mg/Kg	☼	191	75 - 125

Lab Sample ID: 460-266794-E-1-E MSD ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	7300		534	8198	4	mg/Kg	☼	168	75 - 125	14	20
Antimony	5.3	U	5.34	2.58	J N	mg/Kg	☼	48	75 - 125	2	20
Arsenic	4.6	J	10.7	15.65		mg/Kg	☼	103	75 - 125	10	20
Barium	136		10.7	209.2	4	mg/Kg	☼	685	75 - 125	13	20
Beryllium	0.48	J	5.34	5.58		mg/Kg	☼	96	75 - 125	0	20
Cadmium	5.3	U	5.34	5.88		mg/Kg	☼	110	75 - 125	3	20
Calcium	4930		534	5574	4 N	mg/Kg	☼	121	75 - 125	77	20
Chromium	17.2		10.7	26.32		mg/Kg	☼	85	75 - 125	16	20
Cobalt	6.8	J	5.34	11.22		mg/Kg	☼	83	75 - 125	11	20
Copper	54.9		10.7	65.88	4	mg/Kg	☼	103	75 - 125	7	20
Iron	63000		534	98060	4	mg/Kg	☼	6572	75 - 125	9	20
Lead	179		5.34	233.3	4 N	mg/Kg	☼	1007	75 - 125	30	20
Magnesium	1750		534	2575	N	mg/Kg	☼	154	75 - 125	10	20
Manganese	1170		53.4	1642	4	mg/Kg	☼	886	75 - 125	20	20
Nickel	13.3		10.7	23.16	N	mg/Kg	☼	92	75 - 125	22	20
Potassium	470	J	534	1185	N	mg/Kg	☼	134	75 - 125	0	20
Selenium	6.7	U	10.7	10.23		mg/Kg	☼	96	75 - 125	3	20
Silver	2.1	U	5.34	5.20		mg/Kg	☼	97	75 - 125	1	20
Sodium	534	U	534	601.3		mg/Kg	☼	113	75 - 125	7	20
Thallium	2.1	U	4.27	4.28		mg/Kg	☼	100	75 - 125	0	20
Vanadium	30.8		10.7	35.79	N	mg/Kg	☼	47	75 - 125	22	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266794-E-1-E MSD ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	184		53.4	267.3	N	mg/Kg	☼	156	75 - 125	7	20

Lab Sample ID: 460-266794-E-1-C DU ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	7300		6920		mg/Kg	☼	5	20
Antimony	5.3	U	5.3	U	mg/Kg	☼	NC	20
Arsenic	4.6	J	4.78	J	mg/Kg	☼	3	20
Barium	136		188.1	*	mg/Kg	☼	32	20
Beryllium	0.48	J	0.670	J	mg/Kg	☼	34	20
Cadmium	5.3	U	5.3	U	mg/Kg	☼	NC	20
Calcium	4930		4820		mg/Kg	☼	2	20
Chromium	17.2		14.71		mg/Kg	☼	16	20
Cobalt	6.8	J	6.15	J	mg/Kg	☼	10	20
Copper	54.9		40.01	*	mg/Kg	☼	31	20
Iron	63000		144100	*	mg/Kg	☼	78	20
Lead	179		177.2		mg/Kg	☼	1	20
Magnesium	1750		2033		mg/Kg	☼	15	20
Manganese	1170		2373	*	mg/Kg	☼	68	20
Nickel	13.3		11.92		mg/Kg	☼	11	20
Potassium	470	J	545.9		mg/Kg	☼	15	20
Selenium	6.7	U	6.7	U	mg/Kg	☼	NC	20
Silver	2.1	U	2.1	U	mg/Kg	☼	NC	20
Sodium	534	U	534	U	mg/Kg	☼	NC	20
Thallium	2.1	U	2.1	U	mg/Kg	☼	NC	20
Vanadium	30.8		28.72		mg/Kg	☼	7	20
Zinc	184		179.3		mg/Kg	☼	3	20

Lab Sample ID: MB 460-870410/1-A
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Calcium	100	U	100	17.7	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Magnesium	100	U	100	10.2	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/06/22 08:43	10/07/22 21:08	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-870410/1-A
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	2.0	U	2.0	0.47	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Potassium	100	U	100	16.2	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Sodium	100	U	100	45.7	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Zinc	8.0	U	8.0	3.1	mg/Kg		10/06/22 08:43	10/07/22 21:08	1

Lab Sample ID: LCSSRM 460-870410/2-A ^10
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7690	7194		mg/Kg		93.5	45.3 - 154.7
Antimony	111	74.97		mg/Kg		67.5	0.7 - 205.4
Arsenic	112	115.7		mg/Kg		103.3	82.0 - 118.8
Barium	154	149.6		mg/Kg		97.2	81.8 - 118.2
Beryllium	121	118.4		mg/Kg		97.9	82.2 - 118.2
Cadmium	196	189.3		mg/Kg		96.6	82.1 - 118.4
Calcium	4590	4257		mg/Kg		92.7	81.0 - 119.2
Chromium	103	98.72		mg/Kg		95.8	80.8 - 118.4
Cobalt	46.4	44.74		mg/Kg		96.4	83.2 - 116.6
Copper	70.4	74.00		mg/Kg		105.1	83.4 - 116.6
Iron	13400	13350		mg/Kg		99.6	58.2 - 141.8
Lead	73.2	73.10		mg/Kg		99.9	82.8 - 117.3
Magnesium	2240	2160		mg/Kg		96.4	75.4 - 125.0
Manganese	373	362.0		mg/Kg		97.1	81.5 - 118.5
Nickel	249	250.4		mg/Kg		100.6	81.9 - 118.1
Potassium	1940	1878		mg/Kg		96.8	68.0 - 131.4
Selenium	215	219.2		mg/Kg		102.0	78.1 - 121.9
Silver	78.5	78.47		mg/Kg		100	78.9 - 121.1
Sodium	132	1000	U	mg/Kg		94.8	71.4 - 129.5
Thallium	67.7	69.51		mg/Kg		102.7	80.1 - 120.1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-870410/2-A ^10
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870410

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Vanadium			177	171.8		mg/Kg		97.1	78.0 - 122.0		
Zinc			360	349.1		mg/Kg		97.0	79.7 - 120.3		

Lab Sample ID: 460-266826-2 MS
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	3380		518	4270	4	mg/Kg	☼	172	75 - 125		
Antimony	1.0	U	5.18	3.02	N	mg/Kg	☼	58	75 - 125		
Arsenic	0.72	J	10.4	10.52		mg/Kg	☼	95	75 - 125		
Barium	22.4		10.4	35.13		mg/Kg	☼	123	75 - 125		
Beryllium	0.19	J	5.18	5.31		mg/Kg	☼	99	75 - 125		
Cadmium	1.0	U	5.18	4.76		mg/Kg	☼	92	75 - 125		
Calcium	18100		518	14400	4	mg/Kg	☼	-705	75 - 125		
Chromium	9.7		10.4	21.99		mg/Kg	☼	119	75 - 125		
Cobalt	3.0		5.18	7.89		mg/Kg	☼	94	75 - 125		
Copper	8.9		10.4	20.49		mg/Kg	☼	112	75 - 125		
Iron	6800		518	11850	4	mg/Kg	☼	975	75 - 125		
Lead	4.8		5.18	9.07		mg/Kg	☼	81	75 - 125		
Magnesium	9550		518	8577	4	mg/Kg	☼	-187	75 - 125		
Manganese	190		51.8	270.7	N	mg/Kg	☼	156	75 - 125		
Nickel	6.7		10.4	16.74		mg/Kg	☼	97	75 - 125		
Potassium	694		518	1210		mg/Kg	☼	99	75 - 125		
Selenium	1.3	U	10.4	9.34		mg/Kg	☼	90	75 - 125		
Silver	0.41	U	5.18	4.54		mg/Kg	☼	88	75 - 125		
Sodium	175		518	672.2		mg/Kg	☼	96	75 - 125		
Thallium	0.41	U	4.15	3.90		mg/Kg	☼	94	75 - 125		
Vanadium	12.5		10.4	23.88		mg/Kg	☼	110	75 - 125		
Zinc	16.4		51.8	64.25		mg/Kg	☼	92	75 - 125		

Lab Sample ID: 460-266826-2 DU
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	3380			3502		mg/Kg	☼			4	20
Antimony	1.0	U		1.0	U	mg/Kg	☼			NC	20
Arsenic	0.72	J		0.847	J	mg/Kg	☼			16	20
Barium	22.4			30.00	*	mg/Kg	☼			29	20
Beryllium	0.19	J		0.200	J	mg/Kg	☼			5	20
Cadmium	1.0	U		1.0	U	mg/Kg	☼			NC	20
Calcium	18100			17040		mg/Kg	☼			6	20
Chromium	9.7			10.79		mg/Kg	☼			11	20
Cobalt	3.0			3.53		mg/Kg	☼			16	20
Copper	8.9			11.29	*	mg/Kg	☼			23	20
Iron	6800			7007		mg/Kg	☼			3	20
Lead	4.8			4.36		mg/Kg	☼			11	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266826-2 DU
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	9550		8465		mg/Kg	☼	12	20
Manganese	190		268.3	*	mg/Kg	☼	34	20
Nickel	6.7		8.13		mg/Kg	☼	19	20
Potassium	694		666.8		mg/Kg	☼	4	20
Selenium	1.3	U	1.3	U	mg/Kg	☼	NC	20
Silver	0.41	U	0.41	U	mg/Kg	☼	NC	20
Sodium	175		211.8		mg/Kg	☼	19	20
Thallium	0.41	U	0.0530	J	mg/Kg	☼	NC	20
Vanadium	12.5		11.77		mg/Kg	☼	6	20
Zinc	16.4		17.75		mg/Kg	☼	8	20

Lab Sample ID: MB 460-870740/1-A
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Calcium	100	U	100	17.7	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Magnesium	100	U	100	10.2	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Nickel	2.0	U	2.0	0.47	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Potassium	100	U	100	16.2	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Sodium	100	U	100	45.7	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Zinc	8.0	U	8.0	3.1	mg/Kg		10/07/22 19:45	10/10/22 13:35	1

Lab Sample ID: LCSSRM 460-870740/2-A ^10
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7690	7405		mg/Kg		96.3	45.3 - 154.7
Antimony	111	65.88		mg/Kg		59.4	0.7 - 205.4
Arsenic	112	114.6		mg/Kg		102.3	82.0 - 118.8

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-870740/2-A ^10
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Barium	154	154.5		mg/Kg		100.3	81.8 - 118.2
Beryllium	121	115.5		mg/Kg		95.4	82.2 - 118.2
Cadmium	196	191.0		mg/Kg		97.5	82.1 - 118.4
Calcium	4590	4444		mg/Kg		96.8	81.0 - 119.2
Chromium	103	100.0		mg/Kg		97.1	80.8 - 118.4
Cobalt	46.4	45.01		mg/Kg		97.0	83.2 - 116.6
Copper	70.4	71.20		mg/Kg		101.1	83.4 - 116.6
Iron	13400	13230		mg/Kg		98.7	58.2 - 141.8
Lead	73.2	75.01		mg/Kg		102.5	82.8 - 117.3
Magnesium	2240	2261		mg/Kg		100.9	75.4 - 125.0
Manganese	373	372.4		mg/Kg		99.8	81.5 - 118.5
Nickel	249	245.2		mg/Kg		98.5	81.9 - 118.1
Potassium	1940	1897		mg/Kg		97.8	68.0 - 131.4
Selenium	215	209.1		mg/Kg		97.3	78.1 - 121.9
Silver	78.5	79.77		mg/Kg		101.6	78.9 - 121.1
Sodium	132	952	U	mg/Kg		106.4	71.4 - 129.5
Thallium	67.7	68.21		mg/Kg		100.8	80.1 - 120.1
Vanadium	177	174.5		mg/Kg		98.6	78.0 - 122.0
Zinc	360	356.4		mg/Kg		99.0	79.7 - 120.3

Lab Sample ID: 460-266993-F-2-G MS
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	8340		453	8604	4	mg/Kg	☼	57	75 - 125
Antimony	0.91	U	4.53	4.68		mg/Kg	☼	103	75 - 125
Arsenic	3.5		9.06	11.95		mg/Kg	☼	93	75 - 125
Barium	43.0		9.06	50.40	4	mg/Kg	☼	82	75 - 125
Beryllium	0.58		4.53	4.92		mg/Kg	☼	96	75 - 125
Cadmium	0.91	U	4.53	4.35		mg/Kg	☼	96	75 - 125
Calcium	1110		453	1781	N	mg/Kg	☼	148	75 - 125
Chromium	52.0		9.06	60.14	4	mg/Kg	☼	90	75 - 125
Cobalt	5.8		4.53	9.70		mg/Kg	☼	86	75 - 125
Copper	166		9.06	156.2	4	mg/Kg	☼	-107	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266993-F-2-G MS
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	27700		453	32910	4	mg/Kg	☼	1158	75 - 125
Lead	48.4		4.53	55.10	4	mg/Kg	☼	148	75 - 125
Magnesium	3450		453	3523	4	mg/Kg	☼	17	75 - 125
Manganese	340		45.3	339.9	4	mg/Kg	☼	-1	75 - 125
Nickel	17.1		9.06	23.96		mg/Kg	☼	76	75 - 125
Potassium	1870		453	2042	4	mg/Kg	☼	38	75 - 125
Selenium	0.15	J	9.06	8.24		mg/Kg	☼	89	75 - 125
Silver	0.36	U	4.53	4.16		mg/Kg	☼	92	75 - 125
Sodium	230		453	662.9		mg/Kg	☼	95	75 - 125
Thallium	0.12	J	3.62	3.72		mg/Kg	☼	99	75 - 125
Vanadium	43.5		9.06	65.77	4	mg/Kg	☼	246	75 - 125
Zinc	36.8		45.3	76.19		mg/Kg	☼	87	75 - 125

Lab Sample ID: 460-266993-F-2-H MSD
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	8340		432	9199	4	mg/Kg	☼	198	75 - 125	7	20
Antimony	0.91	U	4.32	4.63		mg/Kg	☼	107	75 - 125	1	20
Arsenic	3.5		8.65	15.51	N	mg/Kg	☼	139	75 - 125	26	20
Barium	43.0		8.65	57.57	4	mg/Kg	☼	169	75 - 125	13	20
Beryllium	0.58		4.32	5.08		mg/Kg	☼	104	75 - 125	3	20
Cadmium	0.91	U	4.32	4.37		mg/Kg	☼	101	75 - 125	0	20
Calcium	1110		432	1838	N	mg/Kg	☼	168	75 - 125	3	20
Chromium	52.0		8.65	67.94	4	mg/Kg	☼	185	75 - 125	12	20
Cobalt	5.8		4.32	11.37	N	mg/Kg	☼	129	75 - 125	16	20
Copper	166		8.65	241.7	4 N	mg/Kg	☼	877	75 - 125	43	20
Iron	27700		432	42250	4 N	mg/Kg	☼	3375	75 - 125	25	20
Lead	48.4		4.32	63.92	4	mg/Kg	☼	359	75 - 125	15	20
Magnesium	3450		432	3890	4	mg/Kg	☼	103	75 - 125	10	20
Nickel	17.1		8.65	26.72		mg/Kg	☼	112	75 - 125	11	20
Potassium	1870		432	2130	4	mg/Kg	☼	61	75 - 125	4	20
Selenium	0.15	J	8.65	7.83		mg/Kg	☼	89	75 - 125	5	20
Silver	0.36	U	4.32	4.07		mg/Kg	☼	94	75 - 125	2	20
Sodium	230		432	649.8		mg/Kg	☼	97	75 - 125	2	20
Thallium	0.12	J	3.46	3.67		mg/Kg	☼	103	75 - 125	1	20
Vanadium	43.5		8.65	67.17	4	mg/Kg	☼	274	75 - 125	2	20
Zinc	36.8		43.2	85.18		mg/Kg	☼	112	75 - 125	11	20

Lab Sample ID: 460-266993-F-2-H MSD ^2
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	340		43.2	945.5	4 N	mg/Kg	☼	1400	75 - 125	94	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266993-E-2-B DU
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	8340		8350		mg/Kg	☼	0.07	20
Antimony	0.91	U	0.86	U	mg/Kg	☼	NC	20
Arsenic	3.5		3.55		mg/Kg	☼	2	20
Barium	43.0		42.99		mg/Kg	☼	0.07	20
Beryllium	0.58		0.575		mg/Kg	☼	0.3	20
Cadmium	0.91	U	0.86	U	mg/Kg	☼	NC	20
Calcium	1110		1087		mg/Kg	☼	2	20
Chromium	52.0		51.09		mg/Kg	☼	2	20
Cobalt	5.8		5.95		mg/Kg	☼	3	20
Copper	166		170.0		mg/Kg	☼	2	20
Iron	27700		28100		mg/Kg	☼	2	20
Lead	48.4		47.62		mg/Kg	☼	2	20
Magnesium	3450		3561		mg/Kg	☼	3	20
Manganese	340		345.3		mg/Kg	☼	1	20
Nickel	17.1		17.06		mg/Kg	☼	0.1	20
Potassium	1870		1874		mg/Kg	☼	0.3	20
Selenium	0.15	J	0.180	J	mg/Kg	☼	21	20
Silver	0.36	U	0.35	U	mg/Kg	☼	NC	20
Sodium	230		225.4		mg/Kg	☼	2	20
Thallium	0.12	J	0.130	J	mg/Kg	☼	4	20
Vanadium	43.5		44.47		mg/Kg	☼	2	20
Zinc	36.8		37.34		mg/Kg	☼	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-870160/10-A
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/05/22 00:06	10/05/22 03:55	1

Lab Sample ID: LCSSRM 460-870160/11-A ^40
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	15.66		mg/Kg		118.7	58.0 - 142.4

Lab Sample ID: 460-266735-E-8-H MS
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.026		0.0800	0.113		mg/Kg	☼	109	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-266735-F-8-G MSD
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.026		0.0792	0.112		mg/Kg	☼	109	80 - 120	1	20

Lab Sample ID: 460-266735-A-8-G DU
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.026		0.0276		mg/Kg	☼	8	20

Lab Sample ID: MB 460-870161/1-A
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/05/22 00:21	10/05/22 04:49	1

Lab Sample ID: LCSSRM 460-870161/2-A ^40
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	15.79		mg/Kg		119.6	58.0 - 142.4

Lab Sample ID: 460-266794-E-1-A MSD
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.11		0.0848	0.207		mg/Kg	☼	114	80 - 120	0	20

Lab Sample ID: 460-266794-F-1-B MS
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.11		0.0848	0.206		mg/Kg	☼	114	80 - 120

Lab Sample ID: 460-266794-A-1-A DU
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.11		0.114		mg/Kg	☼	4	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-870359/10-A
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/06/22 00:22	10/06/22 03:54	1

Lab Sample ID: LCSSRM 460-870359/11-A ^40
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870359

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	15.54		mg/Kg		117.7	58.0 - 142.4

Lab Sample ID: 460-266826-2 MS
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.017	U	0.0850	0.0942		mg/Kg	☼	111	80 - 120

Lab Sample ID: 460-266826-2 DU
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870359

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.017	U	0.00917	J	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-870977/10-A
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/10/22 00:23	10/10/22 03:43	1

Lab Sample ID: LCSSRM 460-870977/11-A ^40
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870977

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	16.74		mg/Kg		126.8	58.0 - 142.4

Lab Sample ID: 460-266877-1 MS
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: SB-01_0-2_20221005
Prep Type: Total/NA
Prep Batch: 870977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.018		0.0852	0.111		mg/Kg	☼	108	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-266877-1 DU
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: SB-01_0-2_20221005
Prep Type: Total/NA
Prep Batch: 870977

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.018		0.0214		mg/Kg	☼	15	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-871018/1-A
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		10/10/22 08:35	10/10/22 11:45	1

Lab Sample ID: LCSI 460-871018/3-A
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	759.9		mg/Kg		107	80 - 120

Lab Sample ID: LCSSRM 460-871018/2-A
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	15.9	15.40		mg/Kg		97.0	84.1 - 114.4

Lab Sample ID: 460-266877-2 MSI
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: SB-01_31-33_20221005
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.0	U	725	788.6		mg/Kg	☼	109	75 - 125

Lab Sample ID: 460-266877-2 MSS
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: SB-01_31-33_20221005
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.0	U	41.0	35.71		mg/Kg	☼	87	75 - 125

Lab Sample ID: 460-266877-2 DU
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: SB-01_31-33_20221005
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.0	U	2.0	U	mg/Kg	☼	NC	20

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 460-871024/1-A
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		10/10/22 08:32	10/10/22 12:10	1

Lab Sample ID: LCSI 460-871024/3-A
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	666.3		mg/Kg		94	80 - 120

Lab Sample ID: LCSSRM 460-871024/2-A
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	15.9	16.33		mg/Kg		102.8	84.1 - 114.4

Lab Sample ID: 460-266794-F-1-H MSS
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.1	U	42.7	37.56		mg/Kg	☼	88	75 - 125

Lab Sample ID: 460-266794-F-1-I MSI
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.1	U	756	759.2		mg/Kg	☼	100	75 - 125

Lab Sample ID: 460-266794-F-1-G DU
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.1	U	2.1	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-871123/1-A
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		10/10/22 17:57	10/11/22 09:15	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 460-871123/3-A
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	666.9		mg/Kg		94	80 - 120

Lab Sample ID: LCSSRM 460-871123/2-A
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	15.9	15.22		mg/Kg		95.8	84.1 - 114.4

Lab Sample ID: 460-266802-E-4-Q MSS
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.4	U	47.1	41.65		mg/Kg	☼	88	75 - 125

Lab Sample ID: 460-266802-E-4-R MSI
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.4	U	833	825.7		mg/Kg	☼	99	75 - 125

Lab Sample ID: 460-266802-E-4-P DU
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.4	U	2.4	U	mg/Kg	☼	NC	20

Method: Moisture - Percent Moisture

Lab Sample ID: 460-266739-E-2 DU
Matrix: Solid
Analysis Batch: 870220

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.2		7.7		%		7	20
Percent Solids	91.8		92.3		%		0.6	20

Lab Sample ID: 460-266740-C-2 DU
Matrix: Solid
Analysis Batch: 870340

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.7		9.7		%		0.1	20
Percent Solids	90.3		90.3		%		0	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 460-266846-A-2 DU
Matrix: Solid
Analysis Batch: 870340

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	17.9			19.8		%				10	20
Percent Solids	82.1			80.2		%				2	20

Lab Sample ID: 460-266974-A-7 DU
Matrix: Solid
Analysis Batch: 871138

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.0			10.8		%				8	20
Percent Solids	90.0			89.2		%				0.9	20

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Prep Batch: 870066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	5035	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	5035	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	5035	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	5035	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	5035	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	5035	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	5035	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	5035	
LB3 460-870066/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 870087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-870066/1-A	Method Blank	Total/NA	Solid	8260D	870066
MB 460-870087/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-870087/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870087/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8260D	870066
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8260D	870066
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8260D	870066
MB 460-870199/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870199/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870199/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8260D	870066
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8260D	870066
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8260D	870066
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8260D	870066
MB 460-870277/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870277/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870277/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 870338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	5035	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	5035	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	5035	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	5035	
LB3 460-870338/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 870378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-870338/1-A	Method Blank	Total/NA	Solid	8260D	870338
MB 460-870378/9	Method Blank	Total/NA	Solid	8260D	
LCS 460-870378/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870378/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

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Analysis Batch: 870379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8260D	870066
MB 460-870379/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-870379/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870379/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8260D	870338
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8260D	870338
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8260D	870338
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8260D	870338
MB 460-870501/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870501/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870501/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 870524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	5035	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	5035	
LB3 460-870524/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 870690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8260D	870524
LB3 460-870524/1-A	Method Blank	Total/NA	Solid	8260D	870524
MB 460-870690/9	Method Blank	Total/NA	Solid	8260D	
LCS 460-870690/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870690/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8260D	870524
MB 460-870776/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870776/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870776/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 870137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3546	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3546	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3546	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3546	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3546	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3546	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3546	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3546	
MB 460-870137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870137/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870137/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 870137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266779-B-1-B MS	Matrix Spike	Total/NA	Solid	3546	
460-266779-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8270E	870137
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8270E	870137
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8270E	870137
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8270E	870137
MB 460-870137/1-A	Method Blank	Total/NA	Solid	8270E	870137
LCS 460-870137/2-A	Lab Control Sample	Total/NA	Solid	8270E	870137
LCSD 460-870137/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	870137
460-266779-B-1-B MS	Matrix Spike	Total/NA	Solid	8270E	870137
460-266779-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	870137

Prep Batch: 870226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-1 - DL	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3546	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3546	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3546	
MB 460-870226/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870226/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870226/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266802-E-4-A MS	Matrix Spike	Total/NA	Solid	3546	
460-266802-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8270E	870226
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8270E	870226
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8270E	870226
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8270E	870226
MB 460-870226/1-A	Method Blank	Total/NA	Solid	8270E	870226
LCS 460-870226/2-A	Lab Control Sample	Total/NA	Solid	8270E	870226
LCSD 460-870226/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	870226
460-266802-E-4-A MS	Matrix Spike	Total/NA	Solid	8270E	870226
460-266802-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	870226

Analysis Batch: 870349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1 - DL	SB-05_0-2_20221004	Total/NA	Solid	8270E	870226

Prep Batch: 870659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 870659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1 - DL	SB-01_0-2_20221005	Total/NA	Solid	3546	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3546	
MB 460-870659/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870659/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870659/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266324-F-1-A MS	Matrix Spike	Total/NA	Solid	3546	
460-266324-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8270E	870659
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8270E	870659
MB 460-870659/1-A	Method Blank	Total/NA	Solid	8270E	870659
LCS 460-870659/2-A	Lab Control Sample	Total/NA	Solid	8270E	870659
LCSD 460-870659/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	870659
460-266324-F-1-A MS	Matrix Spike	Total/NA	Solid	8270E	870659
460-266324-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	870659

Analysis Batch: 870853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1 - DL	SB-01_0-2_20221005	Total/NA	Solid	8270E	870659

GC Semi VOA

Prep Batch: 870100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3546	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3546	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3546	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3546	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3546	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3546	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3546	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3546	
MB 460-870100/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870100/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870100/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266735-E-8-D MS	Matrix Spike	Total/NA	Solid	3546	
460-266735-F-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 870105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3546	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3546	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3546	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3546	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3546	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3546	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3546	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3546	
MB 460-870105/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 870105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-870105/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870105/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266735-E-8-F MS	Matrix Spike	Total/NA	Solid	3546	
460-266735-F-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8081B	870105
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8081B	870105
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8081B	870105
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8081B	870105
MB 460-870105/1-A	Method Blank	Total/NA	Solid	8081B	870105
LCS 460-870105/2-A	Lab Control Sample	Total/NA	Solid	8081B	870105
LCSD 460-870105/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	870105
460-266735-E-8-F MS	Matrix Spike	Total/NA	Solid	8081B	870105
460-266735-F-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	870105

Analysis Batch: 870183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8082A	870100
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8082A	870100
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8082A	870100
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8082A	870100
MB 460-870100/1-A	Method Blank	Total/NA	Solid	8082A	870100
LCS 460-870100/2-A	Lab Control Sample	Total/NA	Solid	8082A	870100
LCSD 460-870100/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	870100
460-266735-E-8-D MS	Matrix Spike	Total/NA	Solid	8082A	870100
460-266735-F-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	870100

Prep Batch: 870255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3546	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3546	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3546	
MB 460-870255/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870255/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870255/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266794-E-1-I MS	Matrix Spike	Total/NA	Solid	3546	
460-266794-E-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

QC Association Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

GC Semi VOA

Prep Batch: 870258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3546	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3546	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3546	
MB 460-870258/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870258/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870258/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266794-E-1-L MS	Matrix Spike	Total/NA	Solid	3546	
460-266794-E-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8081B	870258
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8081B	870258
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8081B	870258
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8081B	870258
MB 460-870258/1-A	Method Blank	Total/NA	Solid	8081B	870258
LCS 460-870258/2-A	Lab Control Sample	Total/NA	Solid	8081B	870258
LCSD 460-870258/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	870258
460-266794-E-1-L MS	Matrix Spike	Total/NA	Solid	8081B	870258
460-266794-E-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	870258

Analysis Batch: 870434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8082A	870255
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8082A	870255
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8082A	870255
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8082A	870255
MB 460-870255/1-A	Method Blank	Total/NA	Solid	8082A	870255
LCS 460-870255/2-A	Lab Control Sample	Total/NA	Solid	8082A	870255
LCSD 460-870255/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	870255
460-266794-E-1-I MS	Matrix Spike	Total/NA	Solid	8082A	870255
460-266794-E-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	870255

Prep Batch: 870672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3546	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3546	
MB 460-870672/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870672/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870672/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 870673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3546	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3546	
MB 460-870673/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870673/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870673/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

GC Semi VOA

Analysis Batch: 871004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8081B	870672
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8081B	870672
MB 460-870672/1-A	Method Blank	Total/NA	Solid	8081B	870672
LCS 460-870672/2-A	Lab Control Sample	Total/NA	Solid	8081B	870672
LCSD 460-870672/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	870672

Analysis Batch: 871035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8082A	870673
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8082A	870673
MB 460-870673/1-A	Method Blank	Total/NA	Solid	8082A	870673
LCS 460-870673/2-A	Lab Control Sample	Total/NA	Solid	8082A	870673
LCSD 460-870673/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	870673

Metals

Prep Batch: 870160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	7471B	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	7471B	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	7471B	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	7471B	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	7471B	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	7471B	
MB 460-870160/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870160/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-266735-E-8-H MS	Matrix Spike	Total/NA	Solid	7471B	
460-266735-F-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-266735-A-8-G DU	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 870161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	7471B	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	7471B	
MB 460-870161/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870161/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-266794-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-266794-F-1-B MS	Matrix Spike	Total/NA	Solid	7471B	
460-266794-A-1-A DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 870198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	7471B	870160
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	7471B	870160
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	7471B	870160
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	7471B	870160
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	7471B	870160
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	7471B	870160
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	7471B	870161
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	7471B	870161
MB 460-870160/10-A	Method Blank	Total/NA	Solid	7471B	870160

Metals (Continued)

Analysis Batch: 870198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-870161/1-A	Method Blank	Total/NA	Solid	7471B	870161
LCSSRM 460-870160/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	870160
LCSSRM 460-870161/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	870161
460-266735-E-8-H MS	Matrix Spike	Total/NA	Solid	7471B	870160
460-266735-F-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	870160
460-266794-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	870161
460-266794-F-1-B MS	Matrix Spike	Total/NA	Solid	7471B	870161
460-266735-A-8-G DU	Duplicate	Total/NA	Solid	7471B	870160
460-266794-A-1-A DU	Duplicate	Total/NA	Solid	7471B	870161

Prep Batch: 870217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3050B	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3050B	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3050B	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3050B	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3050B	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3050B	
MB 460-870217/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870217/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
460-266735-E-8-K MS	Matrix Spike	Total/NA	Solid	3050B	
460-266735-E-8-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266735-E-8-J DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 870218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3050B	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3050B	
MB 460-870218/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870218/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-266794-E-1-D MS ^5	Matrix Spike	Total/NA	Solid	3050B	
460-266794-E-1-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266794-E-1-C DU ^5	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 870271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	6020B	870217
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	6020B	870217
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	6020B	870217
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	6020B	870217
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	6020B	870217
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	6020B	870217
MB 460-870217/1-A	Method Blank	Total/NA	Solid	6020B	870217
LCSSRM 460-870217/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	870217
460-266735-E-8-K MS	Matrix Spike	Total/NA	Solid	6020B	870217
460-266735-E-8-L MSD	Matrix Spike Duplicate	Total/NA	Solid	6020B	870217
460-266735-E-8-J DU	Duplicate	Total/NA	Solid	6020B	870217

Prep Batch: 870359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 870359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	7471B	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	7471B	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	7471B	
MB 460-870359/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870359/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	7471B	
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	7471B	

Analysis Batch: 870402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	7471B	870359
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	7471B	870359
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	7471B	870359
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	7471B	870359
MB 460-870359/10-A	Method Blank	Total/NA	Solid	7471B	870359
LCSSRM 460-870359/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	870359
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	7471B	870359
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	7471B	870359

Prep Batch: 870410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3050B	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3050B	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3050B	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3050B	
MB 460-870410/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870410/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	3050B	
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	3050B	

Analysis Batch: 870468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	6020B	870218
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	6020B	870218
MB 460-870218/1-A	Method Blank	Total/NA	Solid	6020B	870218
LCSSRM 460-870218/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	870218
460-266794-E-1-D MS ^5	Matrix Spike	Total/NA	Solid	6020B	870218
460-266794-E-1-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6020B	870218
460-266794-E-1-C DU ^5	Duplicate	Total/NA	Solid	6020B	870218

Analysis Batch: 870666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	6020B	870410
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	6020B	870410
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	6020B	870410
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	6020B	870410
MB 460-870410/1-A	Method Blank	Total/NA	Solid	6020B	870410
LCSSRM 460-870410/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	870410
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	6020B	870410
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	6020B	870410

QC Association Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Metals

Prep Batch: 870740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3050B	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3050B	
MB 460-870740/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870740/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-266993-F-2-G MS	Matrix Spike	Total/NA	Solid	3050B	
460-266993-F-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266993-F-2-H MSD ^2	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266993-E-2-B DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 870977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	7471B	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	7471B	
MB 460-870977/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870977/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-266877-1 MS	SB-01_0-2_20221005	Total/NA	Solid	7471B	
460-266877-1 DU	SB-01_0-2_20221005	Total/NA	Solid	7471B	

Analysis Batch: 871013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	7471B	870977
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	7471B	870977
MB 460-870977/10-A	Method Blank	Total/NA	Solid	7471B	870977
LCSSRM 460-870977/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	870977
460-266877-1 MS	SB-01_0-2_20221005	Total/NA	Solid	7471B	870977
460-266877-1 DU	SB-01_0-2_20221005	Total/NA	Solid	7471B	870977

Analysis Batch: 871052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	6020B	870740
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	6020B	870740
MB 460-870740/1-A	Method Blank	Total/NA	Solid	6020B	870740
LCSSRM 460-870740/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	870740
460-266993-F-2-G MS	Matrix Spike	Total/NA	Solid	6020B	870740
460-266993-F-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6020B	870740
460-266993-F-2-H MSD ^2	Matrix Spike Duplicate	Total/NA	Solid	6020B	870740
460-266993-E-2-B DU	Duplicate	Total/NA	Solid	6020B	870740

General Chemistry

Analysis Batch: 870220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	Moisture	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	Moisture	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	Moisture	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	Moisture	
460-266739-E-2 DU	Duplicate	Total/NA	Solid	Moisture	

General Chemistry

Analysis Batch: 870340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	Moisture	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	Moisture	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	Moisture	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	Moisture	
460-266740-C-2 DU	Duplicate	Total/NA	Solid	Moisture	
460-266846-A-2 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 871018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3060A	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3060A	
MB 460-871018/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-871018/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-871018/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-266877-2 MSI	SB-01_31-33_20221005	Total/NA	Solid	3060A	
460-266877-2 MSS	SB-01_31-33_20221005	Total/NA	Solid	3060A	
460-266877-2 DU	SB-01_31-33_20221005	Total/NA	Solid	3060A	

Prep Batch: 871024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3060A	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3060A	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3060A	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3060A	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3060A	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3060A	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3060A	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3060A	
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3060A	
MB 460-871024/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-871024/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-871024/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-266794-F-1-H MSS	Matrix Spike	Total/NA	Solid	3060A	
460-266794-F-1-I MSI	Matrix Spike	Total/NA	Solid	3060A	
460-266794-F-1-G DU	Duplicate	Total/NA	Solid	3060A	

Analysis Batch: 871076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	7196A	871018
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018
MB 460-871018/1-A	Method Blank	Total/NA	Solid	7196A	871018
LCSI 460-871018/3-A	Lab Control Sample	Total/NA	Solid	7196A	871018
LCSSRM 460-871018/2-A	Lab Control Sample	Total/NA	Solid	7196A	871018
460-266877-2 MSI	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018
460-266877-2 MSS	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018
460-266877-2 DU	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018

Analysis Batch: 871102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	7196A	871024

General Chemistry (Continued)

Analysis Batch: 871102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	7196A	871024
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	7196A	871024
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	7196A	871024
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	7196A	871024
MB 460-871024/1-A	Method Blank	Total/NA	Solid	7196A	871024
LCSI 460-871024/3-A	Lab Control Sample	Total/NA	Solid	7196A	871024
LCSSRM 460-871024/2-A	Lab Control Sample	Total/NA	Solid	7196A	871024
460-266794-F-1-H MSS	Matrix Spike	Total/NA	Solid	7196A	871024
460-266794-F-1-I MSI	Matrix Spike	Total/NA	Solid	7196A	871024
460-266794-F-1-G DU	Duplicate	Total/NA	Solid	7196A	871024

Prep Batch: 871123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3060A	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3060A	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3060A	
MB 460-871123/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-871123/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-871123/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-266802-E-4-Q MSS	Matrix Spike	Total/NA	Solid	3060A	
460-266802-E-4-R MSI	Matrix Spike	Total/NA	Solid	3060A	
460-266802-E-4-P DU	Duplicate	Total/NA	Solid	3060A	

Analysis Batch: 871138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	Moisture	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	Moisture	
460-266974-A-7 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 871259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	7196A	871123
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	7196A	871123
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	7196A	871123
MB 460-871123/1-A	Method Blank	Total/NA	Solid	7196A	871123
LCSI 460-871123/3-A	Lab Control Sample	Total/NA	Solid	7196A	871123
LCSSRM 460-871123/2-A	Lab Control Sample	Total/NA	Solid	7196A	871123
460-266802-E-4-Q MSS	Matrix Spike	Total/NA	Solid	7196A	871123
460-266802-E-4-R MSI	Matrix Spike	Total/NA	Solid	7196A	871123
460-266802-E-4-P DU	Duplicate	Total/NA	Solid	7196A	871123

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:27
Total/NA	Analysis	8260D		1	870199	MZS	EET EDI	10/05/22 17:15
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 06:08
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:18
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 10:55
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:13
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:38
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 13:40

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:28
Total/NA	Analysis	8260D		1	870199	MZS	EET EDI	10/05/22 17:39
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 06:31
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:30
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 11:12
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:16

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_31-33_20221003
Lab Sample ID: 460-266752-2
Date Collected: 10/03/22 09:15
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:40
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-03_0-2_20221003
Lab Sample ID: 460-266752-3
Date Collected: 10/03/22 15:00
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-03_0-2_20221003
Lab Sample ID: 460-266752-3
Date Collected: 10/03/22 15:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:28
Total/NA	Analysis	8260D		1	870199	MZS	EET EDI	10/05/22 18:05
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 06:54
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:43
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 11:29
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:18
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:42
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-03_31-33_20221003
Lab Sample ID: 460-266752-4
Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-03_31-33_20221003
Lab Sample ID: 460-266752-4
Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:29
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 01:11

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Client Sample ID: SB-03_31-33_20221003
Lab Sample ID: 460-266752-4
Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 05:22
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:55
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 11:45
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:21
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:44
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-04_0-2_20221003
Lab Sample ID: 460-266752-5
Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-04_0-2_20221003
Lab Sample ID: 460-266752-5
Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:29
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 01:35
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 07:17
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:07
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:02
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:23
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:46
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-04_32-34_20221003
Lab Sample ID: 460-266752-6
Date Collected: 10/03/22 13:05
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-04_32-34_20221003
Lab Sample ID: 460-266752-6
Date Collected: 10/03/22 13:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:30
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 01:59
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 07:40
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:19
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:19
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:25
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:47
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-07_0-2_20221003
Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-07_0-2_20221003
Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:30
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 02:24
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 08:03
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:32
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:36
Total/NA	Prep	3050B			870218	FBT	EET EDI	10/05/22 09:17
Total/NA	Analysis	6020B		1	870468	MDC	EET EDI	10/07/22 01:21

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-07_0-2_20221003

Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			870161	TJS	EET EDI	10/05/22 00:21
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 05:06
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:31
Total/NA	Analysis	8260D		1	870379	AAT	EET EDI	10/06/22 16:35
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 05:45
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:44
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:52
Total/NA	Prep	3050B			870218	FBT	EET EDI	10/05/22 09:17
Total/NA	Analysis	6020B		1	870468	MDC	EET EDI	10/07/22 01:29
Total/NA	Prep	7471B			870161	TJS	EET EDI	10/05/22 00:21
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 05:07
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:07
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 01:54

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 04:21
Total/NA	Prep	3546	DL		870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E	DL	10	870349	MME	EET EDI	10/06/22 08:50
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:09
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 11:18
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:47
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 04:21
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:09
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 02:19
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 04:38
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:21
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 11:38
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:21
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 03:57
Total/NA	Prep	3060A			871123	VBG	EET EDI	10/10/22 17:57 - 10/10/22 20:10 [1]
Total/NA	Analysis	7196A		1	871259	GSM	EET EDI	10/11/22 10:10

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-06_0-2_20221004
Lab Sample ID: 460-266826-3
Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-06_0-2_20221004
Lab Sample ID: 460-266826-3
Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:10
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 02:43
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 03:47
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:34
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 11:57
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:50
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 04:23
Total/NA	Prep	3060A			871123	VBG	EET EDI	10/10/22 17:57 - 10/10/22 20:10 [1]
Total/NA	Analysis	7196A		1	871259	GSM	EET EDI	10/11/22 10:10

Client Sample ID: SB-06_29-31_20221004
Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-06_29-31_20221004
Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:12
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 03:08
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 04:04
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:46
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 12:17
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:52

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Client Sample ID: SB-06_29-31_20221004
Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 04:25
Total/NA	Prep	3060A			871123	VBG	EET EDI	10/10/22 17:57 - 10/10/22 20:10 [1]
Total/NA	Analysis	7196A		1	871259	GSM	EET EDI	10/11/22 10:10

Client Sample ID: SB-01_0-2_20221005
Lab Sample ID: 460-266877-1
Date Collected: 10/05/22 08:10
Matrix: Solid
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	871138	CJC	EET EDI	10/10/22 19:01

Client Sample ID: SB-01_0-2_20221005
Lab Sample ID: 460-266877-1
Date Collected: 10/05/22 08:10
Matrix: Solid
Date Received: 10/05/22 18:00
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870524	JJC	EET EDI	10/06/22 16:35
Total/NA	Analysis	8260D		1	870690	AAT	EET EDI	10/08/22 02:26
Total/NA	Prep	3546			870659	NAR	EET EDI	10/07/22 10:42
Total/NA	Analysis	8270E		1	870755	YAH	EET EDI	10/08/22 08:36
Total/NA	Prep	3546	DL		870659	NAR	EET EDI	10/07/22 10:42
Total/NA	Analysis	8270E	DL	5	870853	YAH	EET EDI	10/09/22 05:30
Total/NA	Prep	3546			870672	FHW	EET EDI	10/07/22 11:51
Total/NA	Analysis	8081B		1	871004	SAK	EET EDI	10/10/22 09:14
Total/NA	Prep	3546			870673	FHW	EET EDI	10/07/22 11:56
Total/NA	Analysis	8082A		1	871035	JHP	EET EDI	10/10/22 11:08
Total/NA	Prep	3050B			870740	GAE	EET EDI	10/07/22 19:45
Total/NA	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 14:19
Total/NA	Prep	7471B			870977	TJS	EET EDI	10/10/22 00:23
Total/NA	Analysis	7471B		1	871013	TJS	EET EDI	10/10/22 03:47
Total/NA	Prep	3060A			871018	GSM	EET EDI	10/10/22 08:35 - 10/10/22 09:35 [1]
Total/NA	Analysis	7196A		1	871076	GSM	EET EDI	10/10/22 11:45

Client Sample ID: SB-01_31-33_20221005
Lab Sample ID: 460-266877-2
Date Collected: 10/05/22 08:15
Matrix: Solid
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	871138	CJC	EET EDI	10/10/22 19:01

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870524	JJC	EET EDI	10/06/22 16:37
Total/NA	Analysis	8260D		1	870776	AAT	EET EDI	10/08/22 11:50
Total/NA	Prep	3546			870659	NAR	EET EDI	10/07/22 10:42
Total/NA	Analysis	8270E		1	870755	YAH	EET EDI	10/08/22 06:45
Total/NA	Prep	3546			870672	FHW	EET EDI	10/07/22 11:51
Total/NA	Analysis	8081B		1	871004	SAK	EET EDI	10/10/22 09:26
Total/NA	Prep	3546			870673	FHW	EET EDI	10/07/22 11:56
Total/NA	Analysis	8082A		1	871035	JHP	EET EDI	10/10/22 11:25
Total/NA	Prep	3050B			870740	GAE	EET EDI	10/07/22 19:45
Total/NA	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 14:21
Total/NA	Prep	7471B			870977	TJS	EET EDI	10/10/22 00:23
Total/NA	Analysis	7471B		1	871013	TJS	EET EDI	10/10/22 03:54
Total/NA	Prep	3060A			871018	GSM	EET EDI	10/10/22 08:35 - 10/10/22 09:35 [1]
Total/NA	Analysis	7196A		1	871076	GSM	EET EDI	10/10/22 11:45

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Laboratory: Eurofins Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270E	3546	Solid	3 & 4 Methylphenol
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
7196A	Chromium, Hexavalent	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-266752-1	SB-02_0-2_20221003	Solid	10/03/22 09:10	10/03/22 19:00
460-266752-2	SB-02_31-33_20221003	Solid	10/03/22 09:15	10/03/22 19:00
460-266752-3	SB-03_0-2_20221003	Solid	10/03/22 15:00	10/03/22 19:00
460-266752-4	SB-03_31-33_20221003	Solid	10/03/22 15:05	10/03/22 19:00
460-266752-5	SB-04_0-2_20221003	Solid	10/03/22 13:00	10/03/22 19:00
460-266752-6	SB-04_32-34_20221003	Solid	10/03/22 13:05	10/03/22 19:00
460-266752-7	SB-07_0-2_20221003	Solid	10/03/22 10:40	10/03/22 19:00
460-266752-8	SB-07_32-34_20221003	Solid	10/03/22 10:45	10/03/22 19:00
460-266826-1	SB-05_0-2_20221004	Solid	10/04/22 10:30	10/04/22 18:30
460-266826-2	SB-05_29-31_20221004	Solid	10/04/22 10:35	10/04/22 18:30
460-266826-3	SB-06_0-2_20221004	Solid	10/04/22 14:00	10/04/22 18:30
460-266826-4	SB-06_29-31_20221004	Solid	10/04/22 14:05	10/04/22 18:30
460-266877-1	SB-01_0-2_20221005	Solid	10/05/22 08:10	10/05/22 18:00
460-266877-2	SB-01_31-33_20221005	Solid	10/05/22 08:15	10/05/22 18:00

Chain of Custody Record

611419

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

266877

TAL-8210

Client Contact	Project Manager: Alyssa Brzychkowski	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 1 of 2 COCs
Company Name: AKRF, Inc.	Tel/Email: abrzychkowski@akrf.com	Lab Contact: M. Thea	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
City/State/Zip: New York, NY 10016	TAT if different from Below: Standard			Walk-in Client:
Phone: 646 388 9533	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Fax:				Job / SDG No.:
Project Name: IHOP				
Site: Astoria Queens, NY				
PO # 216184				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260-TCL/Add 2 TICs, VOCs	8270A - SVOCs	7471B - mercury	6010B - TAL metals	8082A - PCBs	8270E - TCL/Add 25 TICs/Add 25 Surrs	+1,4-Dioxane	7196A - Hex Chrom 3151	Sample Specific Notes:
SB-01_0-2_20221005	10/5/22	0810	G	S	6	N	N	X	X	X	X	X	X	X	X	1
SB-01_31-33_20221005	↓	0815	G	S	6	N	N	X	X	X	X	X	X	X	X	2

SHORT HOLD

2 2 2 2

460-266877 Chain of Custody

Page 217 of 222

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Category A Deliverable - EQuIS EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1	Tom Gordon	AKRF, Inc	10/5/2022		FedEx	10/6/22 1145
2	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
		FedEx	10/6/1600		FedEx	10/7/22 1200
3	Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			10/5/22 1800		TAL	10/5/22 1800

262R1 EC 232

10/11/2022

Chain of Custody Record

611418

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266817

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Asya Rychkov	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 8 of 2 COCs
Company Name: AKRF Inc.	Tel/Email: arychkov@akrf.com	Lab Contact: M. Hua	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: New York, NY 10016	☐ CALENDAR DAYS ☒ WORKING DAYS			Walk-in Client:
Phone: 646-388-9533	TAT if different from Below: Standard			Lab Sampling:
Fax:	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Job / SDG No.:
Project Name: Illos				
Site: Astoria, Queens, NY				
P O # 210124				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8081B - TCL/Nat 375 Auto	625.1A - DCB	8270E - TCL/Nat 375 ONLY + 1,4-Dioxane	Geo 2013 - TAL Metals	7470A - Mercury	Geo 2013 - Dissolved TAL EE	7470A - Dissolved Merc EE	8260D - TCL/Nat 375 VOA	Sample Specific Notes:
TW-01_GW22Low	10/5/22	1030	G	GW	11	Y	N	X	X	X	X	X	X	X	X	3

12 Z 22 C

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Category A Deliverables / EQUIS EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____
Relinquished by: Tom Gordon	Company: AKRF Inc	Date/Time: 10/5/22	Received by:	Company:	Date/Time: 10/6/22 1045
Relinquished by:	Company:	Date/Time: 10/5/22	Received by:	Company:	Date/Time: 10/6/22 1320
Relinquished by:	Company:	Date/Time: 10/6/22 1800	Received in Laboratory by:	Company: TAL	Date/Time: 10/6/22 1800

26 ZPQ 26 Z209

10/13/2022

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 266877

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.6 °C	2.6 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
3				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: [signature] Date: 10/5/22

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-1

Login Number: 266752
List Number: 1
Creator: Narinkhum, Nudjarin 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-1

Login Number: 266826
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-1

Login Number: 266877
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-266752-2
Client Project/Site: Ikos Senior Living

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco

Melissa Haas

Authorized for release by:
10/14/2022 12:42:30 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@et.eurofinsus.com

LINKS

Review your project results through my EOL

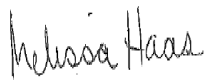
Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/14/2022 12:42:30 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	Surrogate is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-266752-2

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Ikos Senior Living

Report Number: 460-266752-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/3/2022 7:00 PM, 10/4/2022 6:30 PM and 10/5/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 2.6º C, 2.6º C and 3.3º C.

Receipt Exceptions

COC requests FF dissolved metals. We received two containers with nitric acid, but it is not specified on the labels which is dissolved. I labeled one that seems to be dissolved compared to the other one.

The client requested that the soils and ground waters collected for this project be split into 2 separate COCs.

The lab did not received filtered volume for field-filtered metals for the following sample: TW-01_20221005 (460-266877-3). Neither of the two metals bottles received were marked as dissolved metals. The client instructed the lab to randomly choose one bottle to filtered for dissolved metals.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6), TW-02_20221003 (460-266752-9) and TB_20221003 (460-266752-10) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 10/07/2022 and 10/10/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870628 was outside the method criteria for the following analyte(s): Bromomethane (biased high); 1,2-Dichloropropane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Dichlorodifluoromethane and Methyl acetate (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 460-266752-2 (Continued)

Laboratory: Eurofins Edison (Continued)

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-870628 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870989 was outside the method criteria for the following analyte(s): Dichlorodifluoromethane and 1,1,2-Trichloro-1,2,2-trifluoroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Methods 8270E. The samples were prepared on 10/05/2022, 10/06/2022 and 10/07/2022 and analyzed on 10/06/2022, 10/07/2022 and 10/08/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870337 was outside the method criteria for the following analyte(s): 1,4-Dioxane, 2,2'-oxybis[1-chloropropane], 2,4-Dinitrotoluene, Atrazine, Benzaldehyde, Caprolactam and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870235 and analytical batch 460-870337 recovered outside control limits for the following analytes: Atrazine. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870558 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 2,2'-oxybis[1-chloropropane], 3,3'-Dichlorobenzidine, Benzaldehyde, Dibenz(a,h)anthracene, Hexachlorocyclopentadiene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870445 and analytical batch 460-870558 recovered outside control limits for the following analytes: Atrazine. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870554 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2,3,4,6-Tetrachlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline, 4-Nitrophenol, Benzaldehyde, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870657 and analytical batch 460-870554 recovered outside control limits for the following analytes: Atrazine. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and

Job ID: 460-266752-2 (Continued)

Laboratory: Eurofins Edison (Continued)

TW-02_20221003 (460-266752-9) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 10/05/2022 and 10/07/2022 and analyzed on 10/06/2022 and 10/10/2022.

The DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: TW-03_20221004 (460-266826-5), (LCS 460-870354/2-A), (LCSD 460-870354/3-A) and (MB 460-870354/1-A). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870354 and analytical batch 460-870370 recovered outside control limits for the following analytes: Endrin ketone n the secondary column. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The DCB Decachlorobiphenyl surrogate recovery for the CCV was outside acceptance limits (high biased) on the confirmation column : The recovery is within acceptance limits on the other column, therefore the data have been reported.(CCVIS 460-870370/3).

The Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: TW-01_20221005 (460-266877-3). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The continuing calibration verification (CCV) associated with batch 460-871010 recovered outside acceptance criteria, low biased, for Endrin on the secondary column but within control limits on the primary column. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No other difficulties were encountered during the pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 10/05/2022 and 10/07/2022 and analyzed on 10/06/2022 and 10/10/2022.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS - DISSOLVED)(ICP/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for Metals - Dissolved)(ICP/MS) in accordance with EPA SW-846 Method 6020B - Dissolved. The samples were prepared on 10/05/2022 and 10/10/2022 and analyzed on 10/05/2022, 10/06/2022, 10/10/2022 and 10/11/2022.

Sodium failed the recovery criteria low for the MS of sample 460-266466-1 in batch 460-871758. Calcium, Magnesium, Potassium and Sodium failed the recovery criteria high.

Sodium failed the recovery criteria low for the MS of sample TW-02_20221003MS (460-266752-9) in batch 460-870271. Calcium failed the recovery criteria high.
No other difficulties were encountered during the metals, diss. analysis.

All other quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared on 10/06/2022 and analyzed on 10/09/2022.

Job ID: 460-266752-2 (Continued)

Laboratory: Eurofins Edison (Continued)

Sample TW-01_20221005 (460-266877-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

MERCURY - DISSOLVED

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for mercury - Dissolved in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/07/2022 and 10/11/2022.

No difficulties were encountered during the dissolved Hg analysis.

All quality control parameters were within the acceptance limits.

MERCURY

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/05/2022, 10/07/2022 and 10/11/2022.

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: TW-01_20221005 (460-266877-3). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. The sample was preserved on 10/10/22 at 10:00 AM with concentrated nitric acid.

No other difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-02_20221003 — Lab Sample ID: 460-266752-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.4		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	6.7		1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	19		1.0	0.25	ug/L	1		8260D	Total/NA
Caprolactam - DL	98		50	11	ug/L	5		8270E	Total/NA
Aluminum	21.1	J	40.0	19.5	ug/L	1		6020B	Total/NA
Barium	103		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	88000		500	53.6	ug/L	1		6020B	Total/NA
Cobalt	1.7	J	4.0	0.71	ug/L	1		6020B	Total/NA
Magnesium	33700		200	46.9	ug/L	1		6020B	Total/NA
Manganese	439		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	4.3		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	3480		200	112	ug/L	1		6020B	Total/NA
Selenium	3.1		2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	140000		500	163	ug/L	1		6020B	Total/NA
Barium	107		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	88300		500	53.6	ug/L	1		6020B	Dissolved
Cobalt	1.7	J	4.0	0.71	ug/L	1		6020B	Dissolved
Magnesium	34500		200	46.9	ug/L	1		6020B	Dissolved
Manganese	450		8.0	1.5	ug/L	1		6020B	Dissolved
Nickel	3.9	J	4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	3590		200	112	ug/L	1		6020B	Dissolved
Selenium	2.9		2.5	0.59	ug/L	1		6020B	Dissolved
Sodium	141000		500	163	ug/L	1		6020B	Dissolved

Client Sample ID: TB_20221003 — Lab Sample ID: 460-266752-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.32	J	1.0	0.32	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	0.47	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: TW-03_20221004 — Lab Sample ID: 460-266826-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.7		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.41	J	1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	100		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.69	J	1.0	0.31	ug/L	1		8260D	Total/NA
Aluminum	771		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	140		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	116000		500	53.6	ug/L	1		6020B	Total/NA
Chromium	5.5		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	1.6	J	4.0	0.71	ug/L	1		6020B	Total/NA
Copper	3.7	J	4.0	2.5	ug/L	1		6020B	Total/NA
Iron	1660		120	58.2	ug/L	1		6020B	Total/NA
Lead	2.7		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	47500		200	46.9	ug/L	1		6020B	Total/NA
Manganese	261		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	4.3		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	5380		200	112	ug/L	1		6020B	Total/NA
Selenium	2.8		2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	128000		500	163	ug/L	1		6020B	Total/NA
Vanadium	3.2	J	4.0	0.68	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-03_20221004 (Continued)

Lab Sample ID: 460-266826-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	6.7	J	16.0	6.5	ug/L	1		6020B	Total/NA
Aluminum	233		40.0	19.5	ug/L	1		6020B	Dissolved
Barium	125		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	106000		500	53.6	ug/L	1		6020B	Dissolved
Cobalt	1.1	J	4.0	0.71	ug/L	1		6020B	Dissolved
Copper	2.5	J	4.0	2.5	ug/L	1		6020B	Dissolved
Iron	492		120	58.2	ug/L	1		6020B	Dissolved
Lead	3.8		1.2	0.84	ug/L	1		6020B	Dissolved
Magnesium	45900		200	46.9	ug/L	1		6020B	Dissolved
Manganese	216		8.0	1.5	ug/L	1		6020B	Dissolved
Nickel	2.4	J	4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	4950		200	112	ug/L	1		6020B	Dissolved
Selenium	2.2	J	2.5	0.59	ug/L	1		6020B	Dissolved
Sodium	127000		500	163	ug/L	1		6020B	Dissolved
Vanadium	2.0	J	4.0	0.68	ug/L	1		6020B	Dissolved

Client Sample ID: TW-04_20221004

Lab Sample ID: 460-266826-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	9.2		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.3		1.0	0.22	ug/L	1		8260D	Total/NA
Dichlorobromomethane	0.50	J	1.0	0.34	ug/L	1		8260D	Total/NA
Tetrachloroethene	330		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.9		1.0	0.31	ug/L	1		8260D	Total/NA
Aluminum	2320		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	171		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	0.16	J	0.80	0.13	ug/L	1		6020B	Total/NA
Calcium	88700		500	53.6	ug/L	1		6020B	Total/NA
Chromium	14.6		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	3.3	J	4.0	0.71	ug/L	1		6020B	Total/NA
Copper	8.6		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	4430		120	58.2	ug/L	1		6020B	Total/NA
Lead	1.6		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	33100		200	46.9	ug/L	1		6020B	Total/NA
Manganese	1090		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	11.7		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	8380		200	112	ug/L	1		6020B	Total/NA
Selenium	0.78	J	2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	109000		500	163	ug/L	1		6020B	Total/NA
Vanadium	7.1		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	11.9	J	16.0	6.5	ug/L	1		6020B	Total/NA
Aluminum	797		40.0	19.5	ug/L	1		6020B	Dissolved
Barium	147		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	82600		500	53.6	ug/L	1		6020B	Dissolved
Chromium	3.9	J	4.0	2.5	ug/L	1		6020B	Dissolved
Cobalt	2.5	J	4.0	0.71	ug/L	1		6020B	Dissolved
Copper	4.9		4.0	2.5	ug/L	1		6020B	Dissolved
Iron	1630		120	58.2	ug/L	1		6020B	Dissolved
Lead	1.1	J	1.2	0.84	ug/L	1		6020B	Dissolved
Magnesium	30400		200	46.9	ug/L	1		6020B	Dissolved
Manganese	1020		8.0	1.5	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-04_20221004 (Continued)

Lab Sample ID: 460-266826-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	4.9		4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	7610		200	112	ug/L	1		6020B	Dissolved
Selenium	0.85	J	2.5	0.59	ug/L	1		6020B	Dissolved
Sodium	107000		500	163	ug/L	1		6020B	Dissolved
Vanadium	2.8	J	4.0	0.68	ug/L	1		6020B	Dissolved

Client Sample ID: TW-01_20221005

Lab Sample ID: 460-266877-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	9.4		5.0	1.9	ug/L	1		8260D	Total/NA
Acetone	50		5.0	4.4	ug/L	1		8260D	Total/NA
Benzene	0.30	J	1.0	0.20	ug/L	1		8260D	Total/NA
Chloroform	1.6		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	100		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	2.1		1.0	0.31	ug/L	1		8260D	Total/NA
Benzo[a]anthracene	2.1		1.0	0.59	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	1.6		1.0	0.41	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	2.2		2.0	0.68	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	1.7	J	10	0.70	ug/L	1		8270E	Total/NA
Bis(2-ethylhexyl) phthalate	6.2		2.0	0.80	ug/L	1		8270E	Total/NA
Chrysene	2.0		2.0	0.91	ug/L	1		8270E	Total/NA
Fluoranthene	4.0	J	10	0.84	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.6	J	2.0	0.94	ug/L	1		8270E	Total/NA
Phenanthrene	2.6	J	10	1.3	ug/L	1		8270E	Total/NA
Pyrene	3.4	J	10	1.6	ug/L	1		8270E	Total/NA
Aluminum	294000		200	97.5	ug/L	5		6020B	Total/NA
Antimony	1.9	J	2.0	0.76	ug/L	1		6020B	Total/NA
Arsenic	63.9		2.0	0.89	ug/L	1		6020B	Total/NA
Barium	3540		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	14.2		0.80	0.13	ug/L	1		6020B	Total/NA
Cadmium	5.0		2.0	0.39	ug/L	1		6020B	Total/NA
Calcium	913000		2500	268	ug/L	5		6020B	Total/NA
Chromium	3390		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	325		4.0	0.71	ug/L	1		6020B	Total/NA
Copper	1340		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	971000		600	291	ug/L	5		6020B	Total/NA
Lead	857		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	355000		200	46.9	ug/L	1		6020B	Total/NA
Manganese	24600		40.0	7.4	ug/L	5		6020B	Total/NA
Nickel	922		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	66400		200	112	ug/L	1		6020B	Total/NA
Selenium	1.5	J	2.5	0.59	ug/L	1		6020B	Total/NA
Silver	2.5		2.0	0.29	ug/L	1		6020B	Total/NA
Sodium	74600		500	163	ug/L	1		6020B	Total/NA
Thallium	5.1		0.80	0.21	ug/L	1		6020B	Total/NA
Vanadium	707		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	2640		16.0	6.5	ug/L	1		6020B	Total/NA
Antimony	1.9	J	2.0	0.76	ug/L	1		6020B	Dissolved
Barium	16.3		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	19500		500	53.6	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-01_20221005 (Continued)
Lab Sample ID: 460-266877-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.91	J	4.0	0.71	ug/L	1		6020B	Dissolved
Magnesium	4050		200	46.9	ug/L	1		6020B	Dissolved
Manganese	185		8.0	1.5	ug/L	1		6020B	Dissolved
Nickel	9.9		4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	4310		200	112	ug/L	1		6020B	Dissolved
Sodium	35300		500	163	ug/L	1		6020B	Dissolved
Mercury	1.7		0.20	0.091	ug/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-02_20221003
Date Collected: 10/03/22 11:30
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 15:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 15:12	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 15:12	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 15:12	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 15:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 15:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 15:12	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 15:12	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 15:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:12	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 15:12	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 15:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 15:12	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 15:12	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 15:12	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 15:12	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 15:12	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 15:12	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 15:12	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 15:12	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 15:12	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 15:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
Chloroform	2.4		1.0	0.33	ug/L			10/07/22 15:12	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 15:12	1
cis-1,2-Dichloroethene	6.7		1.0	0.22	ug/L			10/07/22 15:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:12	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:12	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 15:12	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 15:12	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 15:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 15:12	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 15:12	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 15:12	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 15:12	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 15:12	1

Client Sample ID: TW-02_20221003
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Lab Sample ID: 460-266752-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
Tetrachloroethene	19		1.0	0.25	ug/L			10/07/22 15:12	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 15:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 15:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:12	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/07/22 15:12	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 15:12	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*		*10/07/22 15:12*	*1*
4-Bromofluorobenzene	*114*		*76 - 120*		*10/07/22 15:12*	*1*
Dibromofluoromethane (Surr)	*113*		*77 - 124*		*10/07/22 15:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/07/22 15:12*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Methylphenol	10	U	10	0.67	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/05/22 10:48	10/06/22 05:09	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/05/22 10:48	10/06/22 05:09	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/06/22 05:09	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Methylphenol	10	U	10	0.65	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/05/22 10:48	10/06/22 05:09	1
Acenaphthene	10	U	10	1.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
Acenaphthylene	10	U	10	0.82	ug/L		10/05/22 10:48	10/06/22 05:09	1
Acetophenone	10	U	10	2.3	ug/L		10/05/22 10:48	10/06/22 05:09	1

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Lab Sample ID: 460-266752-9
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	10	U	10	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzaldehyde	10	U	10	2.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/05/22 10:48	10/06/22 05:09	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/05/22 10:48	10/06/22 05:09	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/05/22 10:48	10/06/22 05:09	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/06/22 05:09	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/05/22 10:48	10/06/22 05:09	1
Carbazole	10	U	10	0.68	ug/L		10/05/22 10:48	10/06/22 05:09	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/05/22 10:48	10/06/22 05:09	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/05/22 10:48	10/06/22 05:09	1
Dibenzofuran	10	U	10	1.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/05/22 10:48	10/06/22 05:09	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/05/22 10:48	10/06/22 05:09	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/05/22 10:48	10/06/22 05:09	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
Fluoranthene	10	U	10	0.84	ug/L		10/05/22 10:48	10/06/22 05:09	1
Fluorene	10	U	10	0.91	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/06/22 05:09	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/05/22 10:48	10/06/22 05:09	1
Isophorone	10	U	10	0.80	ug/L		10/05/22 10:48	10/06/22 05:09	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/05/22 10:48	10/06/22 05:09	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/05/22 10:48	10/06/22 05:09	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/05/22 10:48	10/06/22 05:09	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/05/22 10:48	10/06/22 05:09	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/05/22 10:48	10/06/22 05:09	1
Phenanthrene	10	U	10	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
Phenol	10	U	10	0.29	ug/L		10/05/22 10:48	10/06/22 05:09	1
Pyrene	10	U	10	1.6	ug/L		10/05/22 10:48	10/06/22 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*124*		*37 - 150*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
2-Fluorobiphenyl	*104*		*46 - 139*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
2-Fluorophenol (Surr)	*51*		*19 - 80*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
Nitrobenzene-d5 (Surr)	*97*		*52 - 137*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
Phenol-d5 (Surr)	*34*		*10 - 56*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
Terphenyl-d14 (Surr)	*82*		*22 - 150*	*10/05/22 10:48*	*10/06/22 05:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	98		50	11	ug/L		10/05/22 10:48	10/06/22 07:37	5

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Lab Sample ID: 460-266752-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*81*		*37 - 150*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
2-Fluorobiphenyl	*85*		*46 - 139*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
2-Fluorophenol (Surr)	*39*		*19 - 80*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
Nitrobenzene-d5 (Surr)	*79*		*52 - 137*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
Phenol-d5 (Surr)	*26*		*10 - 56*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
Terphenyl-d14 (Surr)	*70*		*22 - 150*	*10/05/22 10:48*	*10/06/22 07:37*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:27	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:27	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:27	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 07:27	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 07:27	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 07:27	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:27	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:27	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:27	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 07:27	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:27	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:27	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*108*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:27*	*1*
DCB Decachlorobiphenyl	*76*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:27*	*1*
Tetrachloro-m-xylene	*74*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:27*	*1*
Tetrachloro-m-xylene	*64*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:27*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1

Client Sample ID: TW-02_20221003

Date Collected: 10/03/22 11:30
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:30*	*1*
DCB Decachlorobiphenyl	*70*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:30*	*1*
Tetrachloro-m-xylene	*62*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:30*	*1*
Tetrachloro-m-xylene	*57*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:30*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21.1**	**J**	40.0	19.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:29	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:29	1
Barium	**103**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:29	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:29	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:29	1
Calcium	**88000**		500	53.6	ug/L		10/06/22 19:16	10/09/22 14:29	1
Chromium	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Cobalt	**1.7**	**J**	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:29	1
Copper	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Iron	120	U	120	58.2	ug/L		10/06/22 19:16	10/09/22 14:29	1
Lead	1.2	U	1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:29	1
Magnesium	**33700**		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:29	1
Manganese	**439**		8.0	1.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Nickel	**4.3**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:29	1
Potassium	**3480**		200	112	ug/L		10/06/22 19:16	10/09/22 14:29	1
Selenium	**3.1**		2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:29	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:29	1
Sodium	**140000**		500	163	ug/L		10/06/22 19:16	10/09/22 14:29	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:29	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:29	1
Zinc	16.0	U	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/05/22 21:01	10/06/22 20:55	1
Antimony	2.0	U	2.0	0.76	ug/L		10/05/22 21:01	10/05/22 23:30	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/05/22 21:01	10/05/22 23:30	1
Barium	**107**		4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:30	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/05/22 21:01	10/05/22 23:30	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/05/22 21:01	10/05/22 23:30	1
Calcium	**88300**		500	53.6	ug/L		10/05/22 21:01	10/05/22 23:30	1
Chromium	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:30	1
Cobalt	**1.7**	**J**	4.0	0.71	ug/L		10/05/22 21:01	10/05/22 23:30	1
Copper	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:30	1
Iron	120	U	120	58.2	ug/L		10/05/22 21:01	10/05/22 23:30	1
Lead	1.2	U	1.2	0.84	ug/L		10/05/22 21:01	10/06/22 01:45	1
Magnesium	**34500**		200	46.9	ug/L		10/05/22 21:01	10/05/22 23:30	1
Manganese	**450**		8.0	1.5	ug/L		10/05/22 21:01	10/05/22 23:30	1
Nickel	**3.9**	**J**	4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:30	1
Potassium	**3590**		200	112	ug/L		10/05/22 21:01	10/05/22 23:30	1
Selenium	**2.9**		2.5	0.59	ug/L		10/05/22 21:01	10/05/22 23:30	1
Silver	2.0	U	2.0	0.29	ug/L		10/05/22 21:01	10/05/22 23:30	1

Client Sample ID: TW-02_20221003

Lab Sample ID: 460-266752-9
Matrix: Water
Date Collected: 10/03/22 11:30
Date Received: 10/03/22 19:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	141000		500	163	ug/L		10/05/22 21:01	10/05/22 23:30	1
Thallium	0.80	U	0.80	0.21	ug/L		10/05/22 21:01	10/05/22 23:30	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/05/22 21:01	10/05/22 23:30	1
Zinc	16.0	U	16.0	6.5	ug/L		10/05/22 21:01	10/05/22 23:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/05/22 10:46	10/05/22 14:07	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 15:41	1

Client Sample ID: TB_20221003

Lab Sample ID: 460-266752-10
Matrix: Water
Date Collected: 10/03/22 14:30
Date Received: 10/03/22 19:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 15:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 15:33	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 15:33	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 15:33	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 15:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 15:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 15:33	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 15:33	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 15:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:33	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 15:33	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 15:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 15:33	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 15:33	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 15:33	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 15:33	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 15:33	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 15:33	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 15:33	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 15:33	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 15:33	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 15:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/07/22 15:33	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 15:33	1

Client Sample ID: TB_20221003

Lab Sample ID: 460-266752-10

Date Collected: 10/03/22 14:30

Matrix: Water

Date Received: 10/03/22 19:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:33	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 15:33	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 15:33	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 15:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 15:33	1
Methylene Chloride	0.32	J	1.0	0.32	ug/L			10/07/22 15:33	1
m-Xylene & p-Xylene	0.47	J	1.0	0.30	ug/L			10/07/22 15:33	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 15:33	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 15:33	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/07/22 15:33	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 15:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 15:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/07/22 15:33	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 15:33	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 128*		*10/07/22 15:33*	*1*
4-Bromofluorobenzene	*113*		*76 - 120*		*10/07/22 15:33*	*1*
Dibromofluoromethane (Surr)	*111*		*77 - 124*		*10/07/22 15:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/07/22 15:33*	*1*

Client Sample ID: TW-03_20221004

Lab Sample ID: 460-266826-5

Date Collected: 10/04/22 00:00

Matrix: Water

Date Received: 10/04/22 18:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 15:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 15:54	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 15:54	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 15:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 15:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 15:54	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-03_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 15:54	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 15:54	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 15:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:54	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 15:54	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 15:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 15:54	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 15:54	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 15:54	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 15:54	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 15:54	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 15:54	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 15:54	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 15:54	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 15:54	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 15:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
Chloroform	2.7		1.0	0.33	ug/L			10/07/22 15:54	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 15:54	1
cis-1,2-Dichloroethene	0.41	J	1.0	0.22	ug/L			10/07/22 15:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:54	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:54	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 15:54	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 15:54	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 15:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 15:54	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 15:54	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 15:54	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 15:54	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 15:54	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
Tetrachloroethene	100		1.0	0.25	ug/L			10/07/22 15:54	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 15:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 15:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:54	1
Trichloroethene	0.69	J	1.0	0.31	ug/L			10/07/22 15:54	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 15:54	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 15:54	1

Client Sample ID: TW-03_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 128*		*10/07/22 15:54*	*1*
4-Bromofluorobenzene	*113*		*76 - 120*		*10/07/22 15:54*	*1*
Dibromofluoromethane (Surr)	*109*		*77 - 124*		*10/07/22 15:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/07/22 15:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:27	10/07/22 03:03	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:27	10/07/22 03:03	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:03	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:27	10/07/22 03:03	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:27	10/07/22 03:03	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:27	10/07/22 03:03	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:27	10/07/22 03:03	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:27	10/07/22 03:03	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:03	1

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Lab Sample ID: 460-266826-5
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:27	10/07/22 03:03	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:27	10/07/22 03:03	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:27	10/07/22 03:03	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:27	10/07/22 03:03	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:27	10/07/22 03:03	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:27	10/07/22 03:03	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:03	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:03	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:03	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:27	10/07/22 03:03	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:27	10/07/22 03:03	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:27	10/07/22 03:03	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:27	10/07/22 03:03	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:27	10/07/22 03:03	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:27	10/07/22 03:03	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:27	10/07/22 03:03	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:27	10/07/22 03:03	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*37 - 150*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
2-Fluorobiphenyl	*99*		*46 - 139*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
2-Fluorophenol (Surr)	*46*		*19 - 80*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
Nitrobenzene-d5 (Surr)	*98*		*52 - 137*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
Terphenyl-d14 (Surr)	*43*		*22 - 150*	*10/06/22 10:27*	*10/07/22 03:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:55	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:55	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:55	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 06:55	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 06:55	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 06:55	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:55	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:55	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:55	1

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Lab Sample ID: 460-266826-5
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:55	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 06:55	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:55	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:55	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*125*	*	*15 - 121*	*10/05/22 23:06*	*10/06/22 06:55*	*1*
DCB Decachlorobiphenyl	*88*		*15 - 121*	*10/05/22 23:06*	*10/06/22 06:55*	*1*
Tetrachloro-m-xylene	*86*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:55*	*1*
Tetrachloro-m-xylene	*74*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:55*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*12 - 150*	*10/05/22 22:53*	*10/06/22 10:57*	*1*
DCB Decachlorobiphenyl	*79*		*12 - 150*	*10/05/22 22:53*	*10/06/22 10:57*	*1*
Tetrachloro-m-xylene	*70*		*11 - 131*	*10/05/22 22:53*	*10/06/22 10:57*	*1*
Tetrachloro-m-xylene	*64*		*11 - 131*	*10/05/22 22:53*	*10/06/22 10:57*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**771**		40.0	19.5	ug/L		10/06/22 19:16	10/09/22 14:32	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:32	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:32	1
Barium	**140**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:32	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:32	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:32	1
Calcium	**116000**		500	53.6	ug/L		10/06/22 19:16	10/09/22 14:32	1
Chromium	**5.5**		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:32	1
Cobalt	**1.6**	**J**	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:32	1
Copper	**3.7**	**J**	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:32	1
Iron	**1660**		120	58.2	ug/L		10/06/22 19:16	10/09/22 14:32	1
Lead	**2.7**		1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:32	1
Magnesium	**47500**		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:32	1
Manganese	**261**		8.0	1.5	ug/L		10/06/22 19:16	10/09/22 14:32	1

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Lab Sample ID: 460-266826-5

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Matrix: Water

Date Received: 10/04/22 18:30

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	4.3		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:32	1
Potassium	5380		200	112	ug/L		10/06/22 19:16	10/09/22 14:32	1
Selenium	2.8		2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:32	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:32	1
Sodium	128000		500	163	ug/L		10/06/22 19:16	10/09/22 14:32	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:32	1
Vanadium	3.2	J	4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:32	1
Zinc	6.7	J	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:32	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	233		40.0	19.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Antimony	2.0	U	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 22:33	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 22:33	1
Barium	125		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:33	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/11/22 20:10	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 22:33	1
Calcium	106000		500	53.6	ug/L		10/10/22 20:34	10/10/22 22:33	1
Chromium	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Cobalt	1.1	J	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 22:33	1
Copper	2.5	J	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Iron	492		120	58.2	ug/L		10/10/22 20:34	10/10/22 22:33	1
Lead	3.8		1.2	0.84	ug/L		10/10/22 20:34	10/10/22 22:33	1
Magnesium	45900		200	46.9	ug/L		10/10/22 20:34	10/10/22 22:33	1
Manganese	216		8.0	1.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Nickel	2.4	J	4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:33	1
Potassium	4950		200	112	ug/L		10/10/22 20:34	10/10/22 22:33	1
Selenium	2.2	J	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 22:33	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 22:33	1
Sodium	127000		500	163	ug/L		10/10/22 20:34	10/10/22 22:33	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 22:33	1
Vanadium	2.0	J	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 22:33	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 22:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 11:23	10/07/22 14:25	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 15:42	1

Client Sample ID: TW-04_20221004

Lab Sample ID: 460-266826-6

Date Collected: 10/04/22 00:00

Matrix: Water

Date Received: 10/04/22 18:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 16:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 16:16	1

Client Sample ID: TW-04_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 16:16	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 16:16	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 16:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 16:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 16:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 16:16	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 16:16	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 16:16	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 16:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 16:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 16:16	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 16:16	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 16:16	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 16:16	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 16:16	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 16:16	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 16:16	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 16:16	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 16:16	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 16:16	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 16:16	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 16:16	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 16:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
Chloroform	9.2		1.0	0.33	ug/L			10/07/22 16:16	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 16:16	1
cis-1,2-Dichloroethene	2.3		1.0	0.22	ug/L			10/07/22 16:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 16:16	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
Dichlorobromomethane	0.50	J	1.0	0.34	ug/L			10/07/22 16:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 16:16	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 16:16	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 16:16	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 16:16	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 16:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 16:16	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 16:16	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 16:16	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 16:16	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 16:16	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 16:16	1
Tetrachloroethene	330		1.0	0.25	ug/L			10/07/22 16:16	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 16:16	1

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Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 16:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 16:16	1
Trichloroethene	1.9		1.0	0.31	ug/L			10/07/22 16:16	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 16:16	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*		*10/07/22 16:16*	*1*
4-Bromofluorobenzene	*112*		*76 - 120*		*10/07/22 16:16*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 124*		*10/07/22 16:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/07/22 16:16*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:27	10/07/22 03:24	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:27	10/07/22 03:24	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:24	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:27	10/07/22 03:24	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:24	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:27	10/07/22 03:24	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:27	10/07/22 03:24	1

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Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:27	10/07/22 03:24	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:27	10/07/22 03:24	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:27	10/07/22 03:24	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:24	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:27	10/07/22 03:24	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:27	10/07/22 03:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:27	10/07/22 03:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:27	10/07/22 03:24	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:24	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:27	10/07/22 03:24	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:27	10/07/22 03:24	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:24	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:24	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:27	10/07/22 03:24	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:27	10/07/22 03:24	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:27	10/07/22 03:24	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:27	10/07/22 03:24	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:27	10/07/22 03:24	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:27	10/07/22 03:24	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:27	10/07/22 03:24	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:27	10/07/22 03:24	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*37 - 150*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
2-Fluorobiphenyl	*89*		*46 - 139*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
2-Fluorophenol (Surr)	*40*		*19 - 80*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
Nitrobenzene-d5 (Surr)	*88*		*52 - 137*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
Phenol-d5 (Surr)	*25*		*10 - 56*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
Terphenyl-d14 (Surr)	*37*		*22 - 150*	*10/06/22 10:27*	*10/07/22 03:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:11	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:11	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:11	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 07:11	1

Client Sample ID: TW-04_20221004

Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6

Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 07:11	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 07:11	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:11	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:11	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:11	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 07:11	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:11	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:11	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 07:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:11*	*1*
DCB Decachlorobiphenyl	*71*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:11*	*1*
Tetrachloro-m-xylene	*69*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:11*	*1*
Tetrachloro-m-xylene	*60*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:11*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:14*	*1*
DCB Decachlorobiphenyl	*73*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:14*	*1*
Tetrachloro-m-xylene	*64*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:14*	*1*
Tetrachloro-m-xylene	*60*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:14*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2320**		40.0	19.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:34	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:34	1
Barium	**171**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:34	1
Beryllium	**0.16**	**J**	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:34	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:34	1

Client Sample ID: TW-04_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	88700		500	53.6	ug/L		10/06/22 19:16	10/09/22 14:34	1
Chromium	14.6		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Cobalt	3.3	J	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:34	1
Copper	8.6		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Iron	4430		120	58.2	ug/L		10/06/22 19:16	10/09/22 14:34	1
Lead	1.6		1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:34	1
Magnesium	33100		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:34	1
Manganese	1090		8.0	1.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Nickel	11.7		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:34	1
Potassium	8380		200	112	ug/L		10/06/22 19:16	10/09/22 14:34	1
Selenium	0.78	J	2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:34	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:34	1
Sodium	109000		500	163	ug/L		10/06/22 19:16	10/09/22 14:34	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:34	1
Vanadium	7.1		4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:34	1
Zinc	11.9	J	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:34	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	797		40.0	19.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Antimony	2.0	U	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 22:35	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 22:35	1
Barium	147		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:35	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/11/22 20:13	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 22:35	1
Calcium	82600		500	53.6	ug/L		10/10/22 20:34	10/10/22 22:35	1
Chromium	3.9	J	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Cobalt	2.5	J	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 22:35	1
Copper	4.9		4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Iron	1630		120	58.2	ug/L		10/10/22 20:34	10/10/22 22:35	1
Lead	1.1	J	1.2	0.84	ug/L		10/10/22 20:34	10/10/22 22:35	1
Magnesium	30400		200	46.9	ug/L		10/10/22 20:34	10/10/22 22:35	1
Manganese	1020		8.0	1.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Nickel	4.9		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:35	1
Potassium	7610		200	112	ug/L		10/10/22 20:34	10/10/22 22:35	1
Selenium	0.85	J	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 22:35	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 22:35	1
Sodium	107000		500	163	ug/L		10/10/22 20:34	10/10/22 22:35	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 22:35	1
Vanadium	2.8	J	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 22:35	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 22:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 11:23	10/07/22 14:30	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 15:44	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/10/22 11:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/10/22 11:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/10/22 11:01	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/10/22 11:01	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/10/22 11:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/10/22 11:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/10/22 11:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/10/22 11:01	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/10/22 11:01	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/10/22 11:01	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/10/22 11:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/10/22 11:01	1
2-Butanone (MEK)	9.4		5.0	1.9	ug/L			10/10/22 11:01	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/10/22 11:01	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/10/22 11:01	1
Acetone	50		5.0	4.4	ug/L			10/10/22 11:01	1
Benzene	0.30	J	1.0	0.20	ug/L			10/10/22 11:01	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/10/22 11:01	1
Bromomethane	1.0	U	1.0	0.55	ug/L			10/10/22 11:01	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/10/22 11:01	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/10/22 11:01	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/10/22 11:01	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/10/22 11:01	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/10/22 11:01	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
Chloroform	1.6		1.0	0.33	ug/L			10/10/22 11:01	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/10/22 11:01	1
cis-1,2-Dichloroethene	14		1.0	0.22	ug/L			10/10/22 11:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 11:01	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/10/22 11:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/10/22 11:01	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/10/22 11:01	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/10/22 11:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/10/22 11:01	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/10/22 11:01	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/10/22 11:01	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/10/22 11:01	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
Styrene	1.0	U	1.0	0.42	ug/L			10/10/22 11:01	1

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
Tetrachloroethene	100		1.0	0.25	ug/L			10/10/22 11:01	1
Toluene	1.0	U	1.0	0.38	ug/L			10/10/22 11:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/10/22 11:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 11:01	1
Trichloroethene	2.1		1.0	0.31	ug/L			10/10/22 11:01	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/10/22 11:01	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/10/22 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 128*		*10/10/22 11:01*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*10/10/22 11:01*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 124*		*10/10/22 11:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/10/22 11:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Methylphenol	10	U	10	0.67	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/07/22 10:38	10/08/22 07:05	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/07/22 10:38	10/08/22 07:05	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/08/22 07:05	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Methylphenol	10	U	10	0.65	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/07/22 10:38	10/08/22 07:05	1
Acenaphthene	10	U	10	1.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
Acenaphthylene	10	U	10	0.82	ug/L		10/07/22 10:38	10/08/22 07:05	1
Acetophenone	10	U	10	2.3	ug/L		10/07/22 10:38	10/08/22 07:05	1

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	10	U	10	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzaldehyde	10	U	10	2.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[a]anthracene	2.1		1.0	0.59	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[a]pyrene	1.6		1.0	0.41	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[b]fluoranthene	2.2		2.0	0.68	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[g,h,i]perylene	1.7	J	10	0.70	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/07/22 10:38	10/08/22 07:05	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/07/22 10:38	10/08/22 07:05	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/07/22 10:38	10/08/22 07:05	1
Bis(2-ethylhexyl) phthalate	6.2		2.0	0.80	ug/L		10/07/22 10:38	10/08/22 07:05	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/07/22 10:38	10/08/22 07:05	1
Caprolactam	10	U	10	2.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
Carbazole	10	U	10	0.68	ug/L		10/07/22 10:38	10/08/22 07:05	1
Chrysene	2.0		2.0	0.91	ug/L		10/07/22 10:38	10/08/22 07:05	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/07/22 10:38	10/08/22 07:05	1
Dibenzofuran	10	U	10	1.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/07/22 10:38	10/08/22 07:05	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/07/22 10:38	10/08/22 07:05	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/07/22 10:38	10/08/22 07:05	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
Fluoranthene	4.0	J	10	0.84	ug/L		10/07/22 10:38	10/08/22 07:05	1
Fluorene	10	U	10	0.91	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/07/22 10:38	10/08/22 07:05	1
Indeno[1,2,3-cd]pyrene	1.6	J	2.0	0.94	ug/L		10/07/22 10:38	10/08/22 07:05	1
Isophorone	10	U	10	0.80	ug/L		10/07/22 10:38	10/08/22 07:05	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/07/22 10:38	10/08/22 07:05	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/07/22 10:38	10/08/22 07:05	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/07/22 10:38	10/08/22 07:05	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/07/22 10:38	10/08/22 07:05	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/07/22 10:38	10/08/22 07:05	1
Phenanthrene	2.6	J	10	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
Phenol	10	U	10	0.29	ug/L		10/07/22 10:38	10/08/22 07:05	1
Pyrene	3.4	J	10	1.6	ug/L		10/07/22 10:38	10/08/22 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*128*		*37 - 150*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
2-Fluorobiphenyl	*92*		*46 - 139*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
2-Fluorophenol (Surr)	*55*		*19 - 80*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
Nitrobenzene-d5 (Surr)	*90*		*52 - 137*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
Phenol-d5 (Surr)	*44*		*10 - 56*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
Terphenyl-d14 (Surr)	*65*		*22 - 150*	*10/07/22 10:38*	*10/08/22 07:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/07/22 11:20	10/10/22 12:11	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/07/22 11:20	10/10/22 12:11	1

Client Sample ID: TW-01_20221005

Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:20	10/10/22 12:11	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/07/22 11:20	10/10/22 12:11	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/07/22 11:20	10/10/22 12:11	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/07/22 11:20	10/10/22 12:11	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/07/22 11:20	10/10/22 12:11	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/07/22 11:20	10/10/22 12:11	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/07/22 11:20	10/10/22 12:11	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/07/22 11:20	10/10/22 12:11	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/07/22 11:20	10/10/22 12:11	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/07/22 11:20	10/10/22 12:11	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/07/22 11:20	10/10/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*15 - 121*	*10/07/22 11:20*	*10/10/22 12:11*	*1*
DCB Decachlorobiphenyl	*126*	*	*15 - 121*	*10/07/22 11:20*	*10/10/22 12:11*	*1*
Tetrachloro-m-xylene	*95*		*17 - 120*	*10/07/22 11:20*	*10/10/22 12:11*	*1*
Tetrachloro-m-xylene	*100*		*17 - 120*	*10/07/22 11:20*	*10/10/22 12:11*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*121*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:40*	*1*
DCB Decachlorobiphenyl	*116*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:40*	*1*
Tetrachloro-m-xylene	*86*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:40*	*1*
Tetrachloro-m-xylene	*76*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:40*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**294000**		200	97.5	ug/L		10/06/22 19:16	10/09/22 14:44	5
Antimony	**1.9**	**J**	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:37	1
Arsenic	**63.9**		2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:37	1

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	3540		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:37	1
Beryllium	14.2		0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:37	1
Cadmium	5.0		2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:37	1
Calcium	913000		2500	268	ug/L		10/06/22 19:16	10/09/22 14:44	5
Chromium	3390		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:37	1
Cobalt	325		4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:37	1
Copper	1340		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:37	1
Iron	971000		600	291	ug/L		10/06/22 19:16	10/09/22 14:44	5
Lead	857		1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:37	1
Magnesium	355000		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:37	1
Manganese	24600		40.0	7.4	ug/L		10/06/22 19:16	10/09/22 14:44	5
Nickel	922		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:37	1
Potassium	66400		200	112	ug/L		10/06/22 19:16	10/09/22 14:37	1
Selenium	1.5	J	2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:37	1
Silver	2.5		2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:37	1
Sodium	74600		500	163	ug/L		10/06/22 19:16	10/09/22 14:37	1
Thallium	5.1		0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:37	1
Vanadium	707		4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:37	1
Zinc	2640		16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:37	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Antimony	1.9	J	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 23:21	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 23:21	1
Barium	16.3		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 23:21	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/10/22 23:21	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 23:21	1
Calcium	19500		500	53.6	ug/L		10/10/22 20:34	10/10/22 23:21	1
Chromium	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Cobalt	0.91	J	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 23:21	1
Copper	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Iron	120	U	120	58.2	ug/L		10/10/22 20:34	10/10/22 23:21	1
Lead	1.2	U	1.2	0.84	ug/L		10/10/22 20:34	10/10/22 23:21	1
Magnesium	4050		200	46.9	ug/L		10/10/22 20:34	10/10/22 23:21	1
Manganese	185		8.0	1.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Nickel	9.9		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 23:21	1
Potassium	4310		200	112	ug/L		10/10/22 20:34	10/10/22 23:21	1
Selenium	2.5	U	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 23:21	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 23:21	1
Sodium	35300		500	163	ug/L		10/10/22 20:34	10/10/22 23:21	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 23:21	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 23:21	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 23:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.7		0.20	0.091	ug/L		10/11/22 11:10	10/11/22 14:36	1

Client Sample Results

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/11/22 14:45	10/11/22 15:31	1

Surrogate Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-124)	(80-120)
460-266752-9	TW-02_20221003	104	114	113	99
460-266752-10	TB_20221003	106	113	111	98
460-266826-5	TW-03_20221004	103	113	109	98
460-266826-6	TW-04_20221004	101	112	108	97
460-266877-3	TW-01_20221005	109	106	107	100
LCS 460-870628/3	Lab Control Sample	98	116	105	100
LCS 460-870989/3	Lab Control Sample	109	105	107	100
LCSD 460-870628/4	Lab Control Sample Dup	101	117	107	99
LCSD 460-870989/18	Lab Control Sample Dup	104	105	102	99
MB 460-870628/7	Method Blank	101	118	110	96
MB 460-870989/8	Method Blank	110	106	104	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(37-150)	(46-139)	(19-80)	(52-137)	(10-56)	(22-150)
460-266752-9	TW-02_20221003	124	104	51	97	34	82
460-266752-9 - DL	TW-02_20221003	81	85	39	79	26	70
460-266826-5	TW-03_20221004	87	99	46	98	29	43
460-266826-6	TW-04_20221004	75	89	40	88	25	37
460-266877-3	TW-01_20221005	128	92	55	90	44	65
LCS 460-870235/2-A	Lab Control Sample	125	96	44	93	30	82
LCS 460-870445/2-A	Lab Control Sample	103	89	48	90	33	78
LCS 460-870657/2-A	Lab Control Sample	119	95	42	85	31	77
LCSD 460-870235/3-A	Lab Control Sample Dup	124	100	43	93	30	86
LCSD 460-870445/3-A	Lab Control Sample Dup	114	92	49	89	32	77
LCSD 460-870657/3-A	Lab Control Sample Dup	118	94	43	86	31	79
MB 460-870235/1-A	Method Blank	112	95	42	94	29	81
MB 460-870439/1-B	Method Blank	123	108	73	110	50	93
MB 460-870445/1-A	Method Blank	108	98	46	95	27	67
MB 460-870657/1-A	Method Blank	124	103	47	96	29	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(15-121)	(15-121)	(17-120)	(17-120)
460-266752-9	TW-02_20221003	76	108	64	74
460-266826-5	TW-03_20221004	88	125 *	74	86
460-266826-6	TW-04_20221004	71	100	60	69
460-266842-J-4-B MS	Matrix Spike	98	82	59	57
460-266842-J-4-C MSD	Matrix Spike Duplicate	116	112	85	84
460-266877-3	TW-01_20221005	126 *	107	100	95
LCS 460-870354/2-A	Lab Control Sample	88	122 *	79	90
LCS 460-870667/2-A	Lab Control Sample	91	81	86	83
LCSD 460-870354/3-A	Lab Control Sample Dup	87	122 *	79	89
LCSD 460-870667/3-A	Lab Control Sample Dup	90	85	85	85
MB 460-870354/1-A	Method Blank	89	126 *	80	92
MB 460-870667/1-A	Method Blank	85	80	80	82

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(12-150)	(12-150)	(11-131)	(11-131)
460-266752-9	TW-02_20221003	70	69	57	62
460-266826-5	TW-03_20221004	79	80	64	70
460-266826-6	TW-04_20221004	73	74	60	64
460-266877-3	TW-01_20221005	116	121	76	86
LCS 460-870353/2-A	Lab Control Sample	81	80	71	73
LCS 460-870664/2-A	Lab Control Sample	116	124	75	109
LCSD 460-870353/3-A	Lab Control Sample Dup	78	76	68	69
LCSD 460-870664/3-A	Lab Control Sample Dup	119	124	101	107
MB 460-870353/1-A	Method Blank	83	78	68	69
MB 460-870664/1-A	Method Blank	110	107	97	97

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-870628/7
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 10:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 10:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 10:12	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 10:12	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 10:12	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 10:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 10:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 10:12	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 10:12	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 10:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 10:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 10:12	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 10:12	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 10:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 10:12	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 10:12	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 10:12	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 10:12	1
Bromomethane	1.0	U	1.0	0.55	ug/L			10/07/22 10:12	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 10:12	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 10:12	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 10:12	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 10:12	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 10:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/07/22 10:12	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 10:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 10:12	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 10:12	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 10:12	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 10:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 10:12	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 10:12	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 10:12	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870628/7
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 10:12	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/07/22 10:12	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 10:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 10:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/07/22 10:12	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 10:12	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*		*10/07/22 10:12*	*1*
4-Bromofluorobenzene	*118*		*76 - 120*		*10/07/22 10:12*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 124*		*10/07/22 10:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/07/22 10:12*	*1*

Lab Sample ID: LCS 460-870628/3
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.1		ug/L		90	68 - 128
1,1,2,2-Tetrachloroethane	20.0	15.5		ug/L		77	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	13.9		ug/L		70	51 - 142
1,1,2-Trichloroethane	20.0	17.7		ug/L		89	74 - 125
1,1-Dichloroethane	20.0	15.9		ug/L		79	73 - 130
1,1-Dichloroethene	20.0	19.1		ug/L		95	68 - 133
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	56 - 144
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		103	67 - 132
1,2,4-Trimethylbenzene	20.0	18.2		ug/L		91	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/L		97	58 - 132
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	17.3		ug/L		87	66 - 129
1,2-Dichloropropane	20.0	15.4		ug/L		77	68 - 128
1,3,5-Trimethylbenzene	20.0	18.0		ug/L		90	75 - 125
1,3-Dichlorobenzene	20.0	18.4		ug/L		92	80 - 120
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
2-Butanone (MEK)	100	109		ug/L		109	61 - 128
2-Hexanone	100	91.3		ug/L		91	61 - 134
4-Methyl-2-pentanone (MIBK)	100	92.4		ug/L		92	69 - 128
Acetone	100	90.1		ug/L		90	61 - 134
Benzene	20.0	16.8		ug/L		84	71 - 126
Bromoform	20.0	21.2		ug/L		106	48 - 144
Bromomethane	20.0	45.8	*	ug/L		229	32 - 150
Carbon disulfide	20.0	17.6		ug/L		88	64 - 138
Carbon tetrachloride	20.0	18.8		ug/L		94	61 - 131
Chlorobenzene	20.0	18.0		ug/L		90	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870628/3
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	20.0	20.8		ug/L		104	67 - 126
Chlorodibromomethane	20.0	20.2		ug/L		101	62 - 130
Chloroethane	20.0	22.8		ug/L		114	42 - 150
Chloroform	20.0	18.3		ug/L		92	78 - 125
Chloromethane	20.0	18.3		ug/L		92	43 - 150
cis-1,2-Dichloroethene	20.0	18.2		ug/L		91	78 - 121
cis-1,3-Dichloropropene	20.0	16.4		ug/L		82	74 - 125
Cyclohexane	20.0	14.5		ug/L		72	60 - 133
Dichlorobromomethane	20.0	17.9		ug/L		89	76 - 121
Dichlorodifluoromethane	20.0	12.1		ug/L		61	33 - 150
Ethylbenzene	20.0	19.1		ug/L		96	78 - 120
Ethylene Dibromide	20.0	18.8		ug/L		94	79 - 126
Isopropylbenzene	20.0	19.6		ug/L		98	79 - 125
Methyl acetate	40.0	29.2		ug/L		73	55 - 146
Methyl tert-butyl ether	20.0	20.0		ug/L		100	72 - 131
Methylcyclohexane	20.0	13.5		ug/L		68	54 - 139
Methylene Chloride	20.0	17.5		ug/L		87	74 - 127
m-Xylene & p-Xylene	20.0	18.9		ug/L		94	78 - 120
n-Butylbenzene	20.0	17.4		ug/L		87	69 - 135
N-Propylbenzene	20.0	16.9		ug/L		84	68 - 129
o-Xylene	20.0	19.4		ug/L		97	78 - 120
sec-Butylbenzene	20.0	18.1		ug/L		91	73 - 129
Styrene	20.0	19.2		ug/L		96	75 - 127
tert-Butylbenzene	20.0	18.3		ug/L		91	72 - 124
Tetrachloroethene	20.0	20.4		ug/L		102	70 - 127
Toluene	20.0	16.9		ug/L		84	78 - 120
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	74 - 126
trans-1,3-Dichloropropene	20.0	17.3		ug/L		87	66 - 127
Trichloroethene	20.0	18.6		ug/L		93	71 - 121
Trichlorofluoromethane	20.0	17.2		ug/L		86	50 - 150
Vinyl chloride	20.0	21.6		ug/L		108	55 - 144
Xylenes, Total	40.0	38.2		ug/L		96	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 128*
4-Bromofluorobenzene	*116*		*76 - 120*
Dibromofluoromethane (Surr)	*105*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 460-870628/4
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	68 - 128	3	30
1,1,2,2-Tetrachloroethane	20.0	15.8		ug/L		79	63 - 139	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	13.6		ug/L		68	51 - 142	3	30
1,1,2-Trichloroethane	20.0	17.6		ug/L		88	74 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870628/4
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	20.0	15.3		ug/L		77	73 - 130	4	30
1,1-Dichloroethene	20.0	18.7		ug/L		93	68 - 133	2	30
1,2,3-Trichlorobenzene	20.0	21.1		ug/L		106	56 - 144	4	30
1,2,4-Trichlorobenzene	20.0	21.4		ug/L		107	67 - 132	3	30
1,2,4-Trimethylbenzene	20.0	17.9		ug/L		90	75 - 125	2	30
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	58 - 132	7	30
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120	0	30
1,2-Dichloroethane	20.0	17.7		ug/L		88	66 - 129	2	30
1,2-Dichloropropane	20.0	15.0		ug/L		75	68 - 128	2	30
1,3,5-Trimethylbenzene	20.0	17.3		ug/L		86	75 - 125	4	30
1,3-Dichlorobenzene	20.0	18.1		ug/L		91	80 - 120	2	30
1,4-Dichlorobenzene	20.0	18.3		ug/L		91	80 - 120	2	30
2-Butanone (MEK)	100	112		ug/L		112	61 - 128	2	30
2-Hexanone	100	92.9		ug/L		93	61 - 134	2	30
4-Methyl-2-pentanone (MIBK)	100	92.8		ug/L		93	69 - 128	0	30
Acetone	100	91.7		ug/L		92	61 - 134	2	30
Benzene	20.0	16.6		ug/L		83	71 - 126	1	30
Bromoform	20.0	21.9		ug/L		110	48 - 144	3	30
Bromomethane	20.0	44.5	*	ug/L		223	32 - 150	3	30
Carbon disulfide	20.0	17.6		ug/L		88	64 - 138	0	30
Carbon tetrachloride	20.0	19.1		ug/L		96	61 - 131	1	30
Chlorobenzene	20.0	17.6		ug/L		88	80 - 120	2	30
Chlorobromomethane	20.0	21.2		ug/L		106	67 - 126	2	30
Chlorodibromomethane	20.0	19.8		ug/L		99	62 - 130	2	30
Chloroethane	20.0	21.1		ug/L		106	42 - 150	7	30
Chloroform	20.0	17.7		ug/L		89	78 - 125	3	30
Chloromethane	20.0	18.4		ug/L		92	43 - 150	1	30
cis-1,2-Dichloroethene	20.0	17.8		ug/L		89	78 - 121	2	30
cis-1,3-Dichloropropene	20.0	16.2		ug/L		81	74 - 125	1	30
Cyclohexane	20.0	14.1		ug/L		70	60 - 133	3	30
Dichlorobromomethane	20.0	17.7		ug/L		89	76 - 121	1	30
Dichlorodifluoromethane	20.0	12.0		ug/L		60	33 - 150	2	30
Ethylbenzene	20.0	18.6		ug/L		93	78 - 120	3	30
Ethylene Dibromide	20.0	18.6		ug/L		93	79 - 126	1	30
Isopropylbenzene	20.0	18.9		ug/L		95	79 - 125	4	30
Methyl acetate	40.0	32.3		ug/L		81	55 - 146	10	30
Methyl tert-butyl ether	20.0	19.8		ug/L		99	72 - 131	1	30
Methylcyclohexane	20.0	12.7		ug/L		63	54 - 139	7	30
Methylene Chloride	20.0	16.8		ug/L		84	74 - 127	4	30
m-Xylene & p-Xylene	20.0	17.7		ug/L		88	78 - 120	7	30
n-Butylbenzene	20.0	16.6		ug/L		83	69 - 135	5	30
N-Propylbenzene	20.0	16.0		ug/L		80	68 - 129	6	30
o-Xylene	20.0	18.8		ug/L		94	78 - 120	3	30
sec-Butylbenzene	20.0	17.5		ug/L		87	73 - 129	4	30
Styrene	20.0	18.3		ug/L		92	75 - 127	5	30
tert-Butylbenzene	20.0	17.8		ug/L		89	72 - 124	2	30
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 127	2	30
Toluene	20.0	16.4		ug/L		82	78 - 120	3	30
trans-1,2-Dichloroethene	20.0	18.7		ug/L		93	74 - 126	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870628/4
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			20.0	16.9		ug/L		84	66 - 127	3	30
Trichloroethene			20.0	17.8		ug/L		89	71 - 121	4	30
Trichlorofluoromethane			20.0	17.7		ug/L		88	50 - 150	3	30
Vinyl chloride			20.0	22.4		ug/L		112	55 - 144	3	30
Xylenes, Total			40.0	36.4		ug/L		91	78 - 120	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*
4-Bromofluorobenzene	*117*		*76 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 124*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 460-870989/8
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/10/22 09:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/10/22 09:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/10/22 09:15	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/10/22 09:15	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/10/22 09:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/10/22 09:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/10/22 09:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/10/22 09:15	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/10/22 09:15	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/10/22 09:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/10/22 09:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/10/22 09:15	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/10/22 09:15	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/10/22 09:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/10/22 09:15	1
Acetone	5.0	U	5.0	4.4	ug/L			10/10/22 09:15	1
Benzene	1.0	U	1.0	0.20	ug/L			10/10/22 09:15	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/10/22 09:15	1
Bromomethane	1.0	U	1.0	0.55	ug/L			10/10/22 09:15	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/10/22 09:15	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/10/22 09:15	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/10/22 09:15	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/10/22 09:15	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/10/22 09:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/10/22 09:15	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/10/22 09:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870989/8
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/10/22 09:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/10/22 09:15	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/10/22 09:15	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/10/22 09:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/10/22 09:15	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/10/22 09:15	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/10/22 09:15	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
Styrene	1.0	U	1.0	0.42	ug/L			10/10/22 09:15	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/10/22 09:15	1
Toluene	1.0	U	1.0	0.38	ug/L			10/10/22 09:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/10/22 09:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/10/22 09:15	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/10/22 09:15	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/10/22 09:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*		*10/10/22 09:15*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*10/10/22 09:15*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*10/10/22 09:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/10/22 09:15*	*1*

Lab Sample ID: LCS 460-870989/3
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	68 - 128
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		96	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	15.0		ug/L		75	51 - 142
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	74 - 125
1,1-Dichloroethane	20.0	19.4		ug/L		97	73 - 130
1,1-Dichloroethene	20.0	18.0		ug/L		90	68 - 133
1,2,3-Trichlorobenzene	20.0	20.1		ug/L		100	56 - 144
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	67 - 132
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		96	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870989/3
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	58 - 132
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
1,2-Dichloroethane	20.0	20.6		ug/L		103	66 - 129
1,2-Dichloropropane	20.0	18.7		ug/L		94	68 - 128
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	75 - 125
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120
2-Butanone (MEK)	100	89.5		ug/L		89	61 - 128
2-Hexanone	100	100		ug/L		100	61 - 134
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	69 - 128
Acetone	100	132		ug/L		132	61 - 134
Benzene	20.0	18.4		ug/L		92	71 - 126
Bromoform	20.0	19.8		ug/L		99	48 - 144
Bromomethane	20.0	17.0		ug/L		85	32 - 150
Carbon disulfide	20.0	18.5		ug/L		92	64 - 138
Carbon tetrachloride	20.0	19.6		ug/L		98	61 - 131
Chlorobenzene	20.0	18.2		ug/L		91	80 - 120
Chlorobromomethane	20.0	20.5		ug/L		102	67 - 126
Chlorodibromomethane	20.0	19.2		ug/L		96	62 - 130
Chloroethane	20.0	18.0		ug/L		90	42 - 150
Chloroform	20.0	19.7		ug/L		98	78 - 125
Chloromethane	20.0	18.6		ug/L		93	43 - 150
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	78 - 121
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	74 - 125
Cyclohexane	20.0	15.4		ug/L		77	60 - 133
Dichlorobromomethane	20.0	19.8		ug/L		99	76 - 121
Dichlorodifluoromethane	20.0	14.8		ug/L		74	33 - 150
Ethylbenzene	20.0	18.6		ug/L		93	78 - 120
Ethylene Dibromide	20.0	19.7		ug/L		98	79 - 126
Isopropylbenzene	20.0	19.7		ug/L		98	79 - 125
Methyl acetate	40.0	50.8		ug/L		127	55 - 146
Methyl tert-butyl ether	20.0	20.6		ug/L		103	72 - 131
Methylcyclohexane	20.0	14.8		ug/L		74	54 - 139
Methylene Chloride	20.0	19.2		ug/L		96	74 - 127
m-Xylene & p-Xylene	20.0	19.1		ug/L		95	78 - 120
n-Butylbenzene	20.0	18.8		ug/L		94	69 - 135
N-Propylbenzene	20.0	19.7		ug/L		98	68 - 129
o-Xylene	20.0	19.8		ug/L		99	78 - 120
sec-Butylbenzene	20.0	19.6		ug/L		98	73 - 129
Styrene	20.0	19.8		ug/L		99	75 - 127
tert-Butylbenzene	20.0	18.8		ug/L		94	72 - 124
Tetrachloroethene	20.0	18.6		ug/L		93	70 - 127
Toluene	20.0	18.3		ug/L		91	78 - 120
trans-1,2-Dichloroethene	20.0	18.1		ug/L		91	74 - 126
trans-1,3-Dichloropropene	20.0	20.1		ug/L		100	66 - 127
Trichloroethene	20.0	19.0		ug/L		95	71 - 121
Trichlorofluoromethane	20.0	19.0		ug/L		95	50 - 150
Vinyl chloride	20.0	18.3		ug/L		91	55 - 144
Xylenes, Total	40.0	38.9		ug/L		97	78 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 128
4-Bromofluorobenzene	105		76 - 120
Dibromofluoromethane (Surr)	107		77 - 124
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 460-870989/18
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	18.9		ug/L		95	68 - 128	5	30
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/L		97	63 - 139	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	12.7		ug/L		64	51 - 142	17	30
1,1,2-Trichloroethane			20.0	19.3		ug/L		96	74 - 125	2	30
1,1-Dichloroethane			20.0	18.9		ug/L		94	73 - 130	3	30
1,1-Dichloroethene			20.0	16.8		ug/L		84	68 - 133	7	30
1,2,3-Trichlorobenzene			20.0	18.9		ug/L		94	56 - 144	6	30
1,2,4-Trichlorobenzene			20.0	16.9		ug/L		84	67 - 132	9	30
1,2,4-Trimethylbenzene			20.0	18.7		ug/L		93	75 - 125	3	30
1,2-Dibromo-3-Chloropropane			20.0	17.7		ug/L		89	58 - 132	1	30
1,2-Dichlorobenzene			20.0	18.7		ug/L		94	80 - 120	1	30
1,2-Dichloroethane			20.0	19.5		ug/L		98	66 - 129	5	30
1,2-Dichloropropane			20.0	18.1		ug/L		90	68 - 128	4	30
1,3,5-Trimethylbenzene			20.0	19.2		ug/L		96	75 - 125	3	30
1,3-Dichlorobenzene			20.0	19.0		ug/L		95	80 - 120	1	30
1,4-Dichlorobenzene			20.0	18.3		ug/L		91	80 - 120	3	30
2-Butanone (MEK)			100	86.2		ug/L		86	61 - 128	4	30
2-Hexanone			100	102		ug/L		102	61 - 134	1	30
4-Methyl-2-pentanone (MIBK)			100	105		ug/L		105	69 - 128	1	30
Acetone			100	123		ug/L		123	61 - 134	7	30
Benzene			20.0	18.2		ug/L		91	71 - 126	1	30
Bromoform			20.0	19.7		ug/L		99	48 - 144	0	30
Bromomethane			20.0	17.4		ug/L		87	32 - 150	2	30
Carbon disulfide			20.0	17.2		ug/L		86	64 - 138	7	30
Carbon tetrachloride			20.0	18.5		ug/L		92	61 - 131	6	30
Chlorobenzene			20.0	18.4		ug/L		92	80 - 120	1	30
Chlorobromomethane			20.0	19.3		ug/L		96	67 - 126	6	30
Chlorodibromomethane			20.0	18.8		ug/L		94	62 - 130	2	30
Chloroethane			20.0	17.5		ug/L		87	42 - 150	3	30
Chloroform			20.0	19.3		ug/L		96	78 - 125	2	30
Chloromethane			20.0	17.8		ug/L		89	43 - 150	4	30
cis-1,2-Dichloroethene			20.0	19.0		ug/L		95	78 - 121	4	30
cis-1,3-Dichloropropene			20.0	18.9		ug/L		95	74 - 125	4	30
Cyclohexane			20.0	14.1		ug/L		70	60 - 133	9	30
Dichlorobromomethane			20.0	18.8		ug/L		94	76 - 121	5	30
Dichlorodifluoromethane			20.0	13.1		ug/L		65	33 - 150	12	30
Ethylbenzene			20.0	17.9		ug/L		89	78 - 120	4	30
Ethylene Dibromide			20.0	19.1		ug/L		95	79 - 126	3	30
Isopropylbenzene			20.0	18.9		ug/L		95	79 - 125	4	30
Methyl acetate			40.0	50.9		ug/L		127	55 - 146	0	30
Methyl tert-butyl ether			20.0	20.0		ug/L		100	72 - 131	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870989/18
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane			20.0	12.5		ug/L		63	54 - 139	17	30
Methylene Chloride			20.0	18.6		ug/L		93	74 - 127	3	30
m-Xylene & p-Xylene			20.0	18.6		ug/L		93	78 - 120	2	30
n-Butylbenzene			20.0	17.6		ug/L		88	69 - 135	6	30
N-Propylbenzene			20.0	18.8		ug/L		94	68 - 129	5	30
o-Xylene			20.0	18.8		ug/L		94	78 - 120	5	30
sec-Butylbenzene			20.0	18.9		ug/L		94	73 - 129	4	30
Styrene			20.0	19.2		ug/L		96	75 - 127	3	30
tert-Butylbenzene			20.0	18.2		ug/L		91	72 - 124	3	30
Tetrachloroethene			20.0	18.0		ug/L		90	70 - 127	3	30
Toluene			20.0	18.1		ug/L		90	78 - 120	1	30
trans-1,2-Dichloroethene			20.0	17.4		ug/L		87	74 - 126	4	30
trans-1,3-Dichloropropene			20.0	18.9		ug/L		94	66 - 127	6	30
Trichloroethene			20.0	18.1		ug/L		91	71 - 121	5	30
Trichlorofluoromethane			20.0	17.5		ug/L		88	50 - 150	8	30
Vinyl chloride			20.0	19.3		ug/L		96	55 - 144	5	30
Xylenes, Total			40.0	37.4		ug/L		93	78 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*
4-Bromofluorobenzene	*105*		*76 - 120*
Dibromofluoromethane (Surr)	*102*		*77 - 124*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-870235/1-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Methylphenol	10	U	10	0.67	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870235/1-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/05/22 10:48	10/05/22 21:35	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/05/22 10:48	10/05/22 21:35	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/05/22 21:35	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Methylphenol	10	U	10	0.65	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/05/22 10:48	10/05/22 21:35	1
Acenaphthene	10	U	10	1.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
Acenaphthylene	10	U	10	0.82	ug/L		10/05/22 10:48	10/05/22 21:35	1
Acetophenone	10	U	10	2.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
Anthracene	10	U	10	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzaldehyde	10	U	10	2.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/05/22 10:48	10/05/22 21:35	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/05/22 10:48	10/05/22 21:35	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/05/22 10:48	10/05/22 21:35	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/05/22 21:35	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/05/22 10:48	10/05/22 21:35	1
Caprolactam	10	U	10	2.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
Carbazole	10	U	10	0.68	ug/L		10/05/22 10:48	10/05/22 21:35	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/05/22 10:48	10/05/22 21:35	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/05/22 10:48	10/05/22 21:35	1
Dibenzofuran	10	U	10	1.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/05/22 10:48	10/05/22 21:35	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/05/22 10:48	10/05/22 21:35	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/05/22 10:48	10/05/22 21:35	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1
Fluoranthene	10	U	10	0.84	ug/L		10/05/22 10:48	10/05/22 21:35	1
Fluorene	10	U	10	0.91	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/05/22 21:35	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/05/22 10:48	10/05/22 21:35	1
Isophorone	10	U	10	0.80	ug/L		10/05/22 10:48	10/05/22 21:35	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/05/22 10:48	10/05/22 21:35	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/05/22 10:48	10/05/22 21:35	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/05/22 10:48	10/05/22 21:35	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/05/22 10:48	10/05/22 21:35	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/05/22 10:48	10/05/22 21:35	1
Phenanthrene	10	U	10	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870235/1-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	10	U	10	0.29	ug/L		10/05/22 10:48	10/05/22 21:35	1
Pyrene	10	U	10	1.6	ug/L		10/05/22 10:48	10/05/22 21:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*112*		*37 - 150*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
2-Fluorobiphenyl	*95*		*46 - 139*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
2-Fluorophenol (Surr)	*42*		*19 - 80*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
Nitrobenzene-d5 (Surr)	*94*		*52 - 137*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
Terphenyl-d14 (Surr)	*81*		*22 - 150*	*10/05/22 10:48*	*10/05/22 21:35*	*1*

Lab Sample ID: LCS 460-870235/2-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	68.3		ug/L		85	53 - 120
1,2,4,5-Tetrachlorobenzene	80.0	72.7		ug/L		91	46 - 117
1,4-Dioxane	80.0	28.2		ug/L		35	26 - 120
2,2'-oxybis[1-chloropropane]	80.0	37.7		ug/L		47	37 - 120
2,3,4,6-Tetrachlorophenol	80.0	80.8		ug/L		101	54 - 122
2,4,5-Trichlorophenol	80.0	70.5		ug/L		88	58 - 120
2,4,6-Trichlorophenol	80.0	73.0		ug/L		91	61 - 120
2,4-Dichlorophenol	80.0	67.4		ug/L		84	65 - 120
2,4-Dimethylphenol	80.0	58.4		ug/L		73	62 - 120
2,4-Dinitrophenol	160	164		ug/L		103	36 - 150
2,4-Dinitrotoluene	80.0	85.1		ug/L		106	68 - 134
2,6-Dinitrotoluene	80.0	81.3		ug/L		102	65 - 124
2-Chloronaphthalene	80.0	70.4		ug/L		88	52 - 120
2-Chlorophenol	80.0	55.2		ug/L		69	53 - 120
2-Methylnaphthalene	80.0	60.5		ug/L		76	44 - 120
2-Methylphenol	80.0	46.2		ug/L		58	44 - 120
2-Nitroaniline	80.0	55.8		ug/L		70	49 - 120
2-Nitrophenol	80.0	71.5		ug/L		89	60 - 125
3 & 4 Methylphenol	80.0	40.8		ug/L		51	35 - 120
3,3'-Dichlorobenzidine	80.0	69.7		ug/L		87	37 - 137
3-Nitroaniline	80.0	67.2		ug/L		84	40 - 120
4,6-Dinitro-2-methylphenol	160	154		ug/L		96	59 - 135
4-Bromophenyl phenyl ether	80.0	70.1		ug/L		88	62 - 125
4-Chloro-3-methylphenol	80.0	64.1		ug/L		80	61 - 120
4-Chloroaniline	80.0	57.2		ug/L		71	29 - 127
4-Chlorophenyl phenyl ether	80.0	75.6		ug/L		94	59 - 122
4-Methylphenol	80.0	38.7		ug/L		48	33 - 120
4-Nitroaniline	80.0	77.8		ug/L		97	45 - 120
4-Nitrophenol	160	60.4		ug/L		38	12 - 120
Acenaphthene	80.0	69.0		ug/L		86	49 - 120
Acenaphthylene	80.0	66.2		ug/L		83	60 - 120
Acetophenone	80.0	66.2		ug/L		83	62 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870235/2-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	80.0	67.4		ug/L		84	65 - 120
Atrazine	40.0	75.0	*	ug/L		188	43 - 150
Benzaldehyde	40.0	47.9		ug/L		120	41 - 150
Benzo[a]anthracene	80.0	66.9		ug/L		84	63 - 120
Benzo[a]pyrene	80.0	63.2		ug/L		79	60 - 139
Benzo[b]fluoranthene	80.0	68.4		ug/L		85	66 - 125
Benzo[g,h,i]perylene	80.0	76.5		ug/L		96	59 - 136
Benzo[k]fluoranthene	80.0	71.3		ug/L		89	64 - 125
Bis(2-chloroethoxy)methane	80.0	62.5		ug/L		78	64 - 120
Bis(2-chloroethyl)ether	80.0	61.4		ug/L		77	63 - 120
Bis(2-ethylhexyl) phthalate	80.0	75.8		ug/L		95	60 - 132
Butyl benzyl phthalate	80.0	72.7		ug/L		91	58 - 132
Caprolactam	40.0	17.7		ug/L		44	10 - 120
Carbazole	80.0	69.6		ug/L		87	65 - 120
Chrysene	80.0	68.5		ug/L		86	63 - 120
Dibenz(a,h)anthracene	80.0	79.3		ug/L		99	62 - 140
Dibenzofuran	80.0	73.2		ug/L		92	58 - 120
Diethyl phthalate	80.0	77.5		ug/L		97	53 - 129
Dimethyl phthalate	80.0	76.5		ug/L		96	60 - 124
Di-n-butyl phthalate	80.0	69.9		ug/L		87	59 - 133
Di-n-octyl phthalate	80.0	70.2		ug/L		88	49 - 135
Fluoranthene	80.0	72.0		ug/L		90	65 - 123
Fluorene	80.0	75.1		ug/L		94	58 - 120
Hexachlorobenzene	80.0	71.0		ug/L		89	61 - 128
Hexachlorobutadiene	80.0	71.9		ug/L		90	27 - 127
Hexachlorocyclopentadiene	80.0	63.9		ug/L		80	24 - 123
Hexachloroethane	80.0	61.3		ug/L		77	26 - 120
Indeno[1,2,3-cd]pyrene	80.0	77.8		ug/L		97	59 - 137
Isophorone	80.0	66.4		ug/L		83	68 - 121
Naphthalene	80.0	65.6		ug/L		82	51 - 120
Nitrobenzene	80.0	67.9		ug/L		85	64 - 120
N-Nitrosodi-n-propylamine	80.0	62.5		ug/L		78	60 - 120
N-Nitrosodiphenylamine	80.0	66.2		ug/L		83	63 - 120
Pentachlorophenol	160	135		ug/L		84	24 - 131
Phenanthrene	80.0	66.8		ug/L		83	65 - 120
Phenol	80.0	25.3		ug/L		32	18 - 120
Pyrene	80.0	64.4		ug/L		81	51 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*125*		*37 - 150*
2-Fluorobiphenyl	*96*		*46 - 139*
2-Fluorophenol (Surr)	*44*		*19 - 80*
Nitrobenzene-d5 (Surr)	*93*		*52 - 137*
Phenol-d5 (Surr)	*30*		*10 - 56*
Terphenyl-d14 (Surr)	*82*		*22 - 150*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870235/3-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	69.8		ug/L		87	53 - 120	2	30
1,2,4,5-Tetrachlorobenzene			80.0	75.1		ug/L		94	46 - 117	3	30
1,4-Dioxane			80.0	27.3		ug/L		34	26 - 120	3	30
2,2'-oxybis[1-chloropropane]			80.0	38.3		ug/L		48	37 - 120	1	30
2,3,4,6-Tetrachlorophenol			80.0	81.5		ug/L		102	54 - 122	1	30
2,4,5-Trichlorophenol			80.0	70.1		ug/L		88	58 - 120	1	30
2,4,6-Trichlorophenol			80.0	74.7		ug/L		93	61 - 120	2	30
2,4-Dichlorophenol			80.0	67.4		ug/L		84	65 - 120	0	30
2,4-Dimethylphenol			80.0	57.6		ug/L		72	62 - 120	1	30
2,4-Dinitrophenol			160	164		ug/L		103	36 - 150	0	30
2,4-Dinitrotoluene			80.0	84.9		ug/L		106	68 - 134	0	30
2,6-Dinitrotoluene			80.0	81.0		ug/L		101	65 - 124	0	30
2-Chloronaphthalene			80.0	71.3		ug/L		89	52 - 120	1	30
2-Chlorophenol			80.0	55.3		ug/L		69	53 - 120	0	30
2-Methylnaphthalene			80.0	59.8		ug/L		75	44 - 120	1	30
2-Methylphenol			80.0	45.5		ug/L		57	44 - 120	1	30
2-Nitroaniline			80.0	54.7		ug/L		68	49 - 120	2	30
2-Nitrophenol			80.0	71.6		ug/L		89	60 - 125	0	30
3 & 4 Methylphenol			80.0	39.8		ug/L		50	35 - 120	2	30
3,3'-Dichlorobenzidine			80.0	73.1		ug/L		91	37 - 137	5	30
3-Nitroaniline			80.0	65.6		ug/L		82	40 - 120	2	30
4,6-Dinitro-2-methylphenol			160	154		ug/L		96	59 - 135	0	30
4-Bromophenyl phenyl ether			80.0	69.8		ug/L		87	62 - 125	0	30
4-Chloro-3-methylphenol			80.0	61.4		ug/L		77	61 - 120	4	30
4-Chloroaniline			80.0	58.0		ug/L		72	29 - 127	1	30
4-Chlorophenyl phenyl ether			80.0	77.1		ug/L		96	59 - 122	2	30
4-Methylphenol			80.0	37.5		ug/L		47	33 - 120	3	30
4-Nitroaniline			80.0	75.2		ug/L		94	45 - 120	3	30
4-Nitrophenol			160	59.9		ug/L		37	12 - 120	1	30
Acenaphthene			80.0	69.4		ug/L		87	49 - 120	1	30
Acenaphthylene			80.0	66.6		ug/L		83	60 - 120	1	30
Acetophenone			80.0	64.9		ug/L		81	62 - 120	2	30
Anthracene			80.0	66.8		ug/L		83	65 - 120	1	30
Atrazine			40.0	74.6	*	ug/L		186	43 - 150	1	30
Benzaldehyde			40.0	47.3		ug/L		118	41 - 150	1	30
Benzo[a]anthracene			80.0	67.6		ug/L		85	63 - 120	1	30
Benzo[a]pyrene			80.0	63.6		ug/L		79	60 - 139	1	30
Benzo[b]fluoranthene			80.0	68.6		ug/L		86	66 - 125	0	30
Benzo[g,h,i]perylene			80.0	76.8		ug/L		96	59 - 136	0	30
Benzo[k]fluoranthene			80.0	71.8		ug/L		90	64 - 125	1	30
Bis(2-chloroethoxy)methane			80.0	65.0		ug/L		81	64 - 120	4	30
Bis(2-chloroethyl)ether			80.0	61.6		ug/L		77	63 - 120	0	30
Bis(2-ethylhexyl) phthalate			80.0	79.8		ug/L		100	60 - 132	5	30
Butyl benzyl phthalate			80.0	76.8		ug/L		96	58 - 132	5	30
Caprolactam			40.0	16.7		ug/L		42	10 - 120	6	30
Carbazole			80.0	68.7		ug/L		86	65 - 120	1	30
Chrysene			80.0	69.0		ug/L		86	63 - 120	1	30
Dibenz(a,h)anthracene			80.0	79.9		ug/L		100	62 - 140	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870235/3-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			80.0	74.0		ug/L		92	58 - 120	1	30
Diethyl phthalate			80.0	77.3		ug/L		97	53 - 129	0	30
Dimethyl phthalate			80.0	78.0		ug/L		97	60 - 124	2	30
Di-n-butyl phthalate			80.0	71.1		ug/L		89	59 - 133	2	30
Di-n-octyl phthalate			80.0	73.4		ug/L		92	49 - 135	5	30
Fluoranthene			80.0	71.8		ug/L		90	65 - 123	0	30
Fluorene			80.0	75.3		ug/L		94	58 - 120	0	30
Hexachlorobenzene			80.0	72.1		ug/L		90	61 - 128	2	30
Hexachlorobutadiene			80.0	72.5		ug/L		91	27 - 127	1	30
Hexachlorocyclopentadiene			80.0	69.0		ug/L		86	24 - 123	8	30
Hexachloroethane			80.0	60.8		ug/L		76	26 - 120	1	30
Indeno[1,2,3-cd]pyrene			80.0	77.9		ug/L		97	59 - 137	0	30
Isophorone			80.0	65.6		ug/L		82	68 - 121	1	30
Naphthalene			80.0	66.4		ug/L		83	51 - 120	1	30
Nitrobenzene			80.0	68.3		ug/L		85	64 - 120	1	30
N-Nitrosodi-n-propylamine			80.0	62.7		ug/L		78	60 - 120	0	30
N-Nitrosodiphenylamine			80.0	65.4		ug/L		82	63 - 120	1	30
Pentachlorophenol			160	135		ug/L		84	24 - 131	0	30
Phenanthrene			80.0	66.6		ug/L		83	65 - 120	0	30
Phenol			80.0	25.1		ug/L		31	18 - 120	1	30
Pyrene			80.0	67.0		ug/L		84	51 - 124	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*124*		*37 - 150*
2-Fluorobiphenyl	*100*		*46 - 139*
2-Fluorophenol (Surr)	*43*		*19 - 80*
Nitrobenzene-d5 (Surr)	*93*		*52 - 137*
Phenol-d5 (Surr)	*30*		*10 - 56*
Terphenyl-d14 (Surr)	*86*		*22 - 150*

Lab Sample ID: MB 460-870439/1-B
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870439/1-B
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:31	10/06/22 21:49	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:31	10/06/22 21:49	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:31	10/06/22 21:49	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:31	10/06/22 21:49	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:31	10/06/22 21:49	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:31	10/06/22 21:49	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:31	10/06/22 21:49	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:31	10/06/22 21:49	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:31	10/06/22 21:49	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:31	10/06/22 21:49	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:31	10/06/22 21:49	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:31	10/06/22 21:49	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:31	10/06/22 21:49	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:31	10/06/22 21:49	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:31	10/06/22 21:49	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:31	10/06/22 21:49	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:31	10/06/22 21:49	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:31	10/06/22 21:49	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:31	10/06/22 21:49	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:31	10/06/22 21:49	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:31	10/06/22 21:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870439/1-B
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:31	10/06/22 21:49	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:31	10/06/22 21:49	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:31	10/06/22 21:49	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:31	10/06/22 21:49	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:31	10/06/22 21:49	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:31	10/06/22 21:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*123*		*37 - 150*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
2-Fluorobiphenyl	*108*		*46 - 139*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
2-Fluorophenol (Surr)	*73*		*19 - 80*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
Nitrobenzene-d5 (Surr)	*110*		*52 - 137*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
Phenol-d5 (Surr)	*50*		*10 - 56*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
Terphenyl-d14 (Surr)	*93*		*22 - 150*	*10/06/22 10:31*	*10/06/22 21:49*	*1*

Lab Sample ID: MB 460-870445/1-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:27	10/06/22 20:46	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:27	10/06/22 20:46	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/06/22 20:46	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:27	10/06/22 20:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870445/1-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:27	10/06/22 20:46	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:27	10/06/22 20:46	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:27	10/06/22 20:46	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:27	10/06/22 20:46	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:27	10/06/22 20:46	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/06/22 20:46	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:27	10/06/22 20:46	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:27	10/06/22 20:46	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:27	10/06/22 20:46	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:27	10/06/22 20:46	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:27	10/06/22 20:46	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:27	10/06/22 20:46	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:27	10/06/22 20:46	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:27	10/06/22 20:46	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/06/22 20:46	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:27	10/06/22 20:46	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:27	10/06/22 20:46	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:27	10/06/22 20:46	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:27	10/06/22 20:46	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:27	10/06/22 20:46	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:27	10/06/22 20:46	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:27	10/06/22 20:46	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:27	10/06/22 20:46	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:27	10/06/22 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*37 - 150*	*10/06/22 10:27*	*10/06/22 20:46*	*1*
2-Fluorobiphenyl	*98*		*46 - 139*	*10/06/22 10:27*	*10/06/22 20:46*	*1*
2-Fluorophenol (Surr)	*46*		*19 - 80*	*10/06/22 10:27*	*10/06/22 20:46*	*1*
Nitrobenzene-d5 (Surr)	*95*		*52 - 137*	*10/06/22 10:27*	*10/06/22 20:46*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870445/1-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	27		10 - 56	10/06/22 10:27	10/06/22 20:46	1
Terphenyl-d14 (Surr)	67		22 - 150	10/06/22 10:27	10/06/22 20:46	1

Lab Sample ID: LCS 460-870445/2-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	71.7		ug/L		90	53 - 120
1,2,4,5-Tetrachlorobenzene	80.0	74.6		ug/L		93	46 - 117
1,4-Dioxane	80.0	38.1		ug/L		48	26 - 120
2,2'-oxybis[1-chloropropane]	80.0	50.1		ug/L		63	37 - 120
2,3,4,6-Tetrachlorophenol	80.0	83.3		ug/L		104	54 - 122
2,4,5-Trichlorophenol	80.0	72.9		ug/L		91	58 - 120
2,4,6-Trichlorophenol	80.0	76.7		ug/L		96	61 - 120
2,4-Dichlorophenol	80.0	71.2		ug/L		89	65 - 120
2,4-Dimethylphenol	80.0	61.8		ug/L		77	62 - 120
2,4-Dinitrophenol	160	124		ug/L		78	36 - 150
2,4-Dinitrotoluene	80.0	86.1		ug/L		108	68 - 134
2,6-Dinitrotoluene	80.0	81.8		ug/L		102	65 - 124
2-Chloronaphthalene	80.0	72.2		ug/L		90	52 - 120
2-Chlorophenol	80.0	59.5		ug/L		74	53 - 120
2-Methylnaphthalene	80.0	59.4		ug/L		74	44 - 120
2-Methylphenol	80.0	50.0		ug/L		63	44 - 120
2-Nitroaniline	80.0	63.8		ug/L		80	49 - 120
2-Nitrophenol	80.0	77.0		ug/L		96	60 - 125
3 & 4 Methylphenol	80.0	46.0		ug/L		57	35 - 120
3,3'-Dichlorobenzidine	80.0	84.9		ug/L		106	37 - 137
3-Nitroaniline	80.0	59.3		ug/L		74	40 - 120
4,6-Dinitro-2-methylphenol	160	158		ug/L		99	59 - 135
4-Bromophenyl phenyl ether	80.0	80.4		ug/L		101	62 - 125
4-Chloro-3-methylphenol	80.0	67.8		ug/L		85	61 - 120
4-Chloroaniline	80.0	60.2		ug/L		75	29 - 127
4-Chlorophenyl phenyl ether	80.0	78.1		ug/L		98	59 - 122
4-Methylphenol	80.0	44.9		ug/L		56	33 - 120
4-Nitroaniline	80.0	63.7		ug/L		80	45 - 120
4-Nitrophenol	160	46.0		ug/L		29	12 - 120
Acenaphthene	80.0	67.4		ug/L		84	49 - 120
Acenaphthylene	80.0	68.9		ug/L		86	60 - 120
Acetophenone	80.0	65.5		ug/L		82	62 - 120
Anthracene	80.0	75.1		ug/L		94	65 - 120
Atrazine	40.0	68.5	*	ug/L		171	43 - 150
Benzaldehyde	40.0	51.9		ug/L		130	41 - 150
Benzo[a]anthracene	80.0	76.5		ug/L		96	63 - 120
Benzo[a]pyrene	80.0	73.5		ug/L		92	60 - 139
Benzo[b]fluoranthene	80.0	78.6		ug/L		98	66 - 125
Benzo[g,h,i]perylene	80.0	77.7		ug/L		97	59 - 136
Benzo[k]fluoranthene	80.0	78.7		ug/L		98	64 - 125

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870445/2-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	80.0	66.9		ug/L		84	64 - 120
Bis(2-chloroethyl)ether	80.0	64.3		ug/L		80	63 - 120
Bis(2-ethylhexyl) phthalate	80.0	81.3		ug/L		102	60 - 132
Butyl benzyl phthalate	80.0	82.5		ug/L		103	58 - 132
Caprolactam	40.0	18.1		ug/L		45	10 - 120
Carbazole	80.0	71.6		ug/L		89	65 - 120
Chrysene	80.0	73.2		ug/L		92	63 - 120
Dibenz(a,h)anthracene	80.0	86.6		ug/L		108	62 - 140
Dibenzofuran	80.0	74.7		ug/L		93	58 - 120
Diethyl phthalate	80.0	77.4		ug/L		97	53 - 129
Dimethyl phthalate	80.0	76.1		ug/L		95	60 - 124
Di-n-butyl phthalate	80.0	75.8		ug/L		95	59 - 133
Di-n-octyl phthalate	80.0	77.4		ug/L		97	49 - 135
Fluoranthene	80.0	75.2		ug/L		94	65 - 123
Fluorene	80.0	74.2		ug/L		93	58 - 120
Hexachlorobenzene	80.0	82.6		ug/L		103	61 - 128
Hexachlorobutadiene	80.0	51.8		ug/L		65	27 - 127
Hexachlorocyclopentadiene	80.0	69.6		ug/L		87	24 - 123
Hexachloroethane	80.0	33.3		ug/L		42	26 - 120
Indeno[1,2,3-cd]pyrene	80.0	89.8		ug/L		112	59 - 137
Isophorone	80.0	69.9		ug/L		87	68 - 121
Naphthalene	80.0	55.8		ug/L		70	51 - 120
Nitrobenzene	80.0	63.6		ug/L		79	64 - 120
N-Nitrosodi-n-propylamine	80.0	63.0		ug/L		79	60 - 120
N-Nitrosodiphenylamine	80.0	72.7		ug/L		91	63 - 120
Pentachlorophenol	160	153		ug/L		96	24 - 131
Phenanthrene	80.0	72.9		ug/L		91	65 - 120
Phenol	80.0	25.0		ug/L		31	18 - 120
Pyrene	80.0	74.7		ug/L		93	51 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*37 - 150*
2-Fluorobiphenyl	*89*		*46 - 139*
2-Fluorophenol (Surr)	*48*		*19 - 80*
Nitrobenzene-d5 (Surr)	*90*		*52 - 137*
Phenol-d5 (Surr)	*33*		*10 - 56*
Terphenyl-d14 (Surr)	*78*		*22 - 150*

Lab Sample ID: LCSD 460-870445/3-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	73.0		ug/L		91	53 - 120	2	30
1,2,4,5-Tetrachlorobenzene	80.0	76.6		ug/L		96	46 - 117	3	30
1,4-Dioxane	80.0	37.6		ug/L		47	26 - 120	1	30
2,2'-oxybis[1-chloropropane]	80.0	50.2		ug/L		63	37 - 120	0	30
2,3,4,6-Tetrachlorophenol	80.0	86.3		ug/L		108	54 - 122	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870445/3-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	80.0	76.7		ug/L		96	58 - 120	5	30
2,4,6-Trichlorophenol	80.0	78.3		ug/L		98	61 - 120	2	30
2,4-Dichlorophenol	80.0	73.2		ug/L		92	65 - 120	3	30
2,4-Dimethylphenol	80.0	63.0		ug/L		79	62 - 120	2	30
2,4-Dinitrophenol	160	130		ug/L		81	36 - 150	4	30
2,4-Dinitrotoluene	80.0	86.7		ug/L		108	68 - 134	1	30
2,6-Dinitrotoluene	80.0	82.0		ug/L		103	65 - 124	0	30
2-Chloronaphthalene	80.0	75.7		ug/L		95	52 - 120	5	30
2-Chlorophenol	80.0	60.6		ug/L		76	53 - 120	2	30
2-Methylnaphthalene	80.0	59.4		ug/L		74	44 - 120	0	30
2-Methylphenol	80.0	49.7		ug/L		62	44 - 120	1	30
2-Nitroaniline	80.0	64.7		ug/L		81	49 - 120	1	30
2-Nitrophenol	80.0	75.6		ug/L		95	60 - 125	2	30
3 & 4 Methylphenol	80.0	47.5		ug/L		59	35 - 120	3	30
3,3'-Dichlorobenzidine	80.0	83.9		ug/L		105	37 - 137	1	30
3-Nitroaniline	80.0	62.6		ug/L		78	40 - 120	5	30
4,6-Dinitro-2-methylphenol	160	161		ug/L		101	59 - 135	2	30
4-Bromophenyl phenyl ether	80.0	80.1		ug/L		100	62 - 125	0	30
4-Chloro-3-methylphenol	80.0	65.7		ug/L		82	61 - 120	3	30
4-Chloroaniline	80.0	61.1		ug/L		76	29 - 127	2	30
4-Chlorophenyl phenyl ether	80.0	82.5		ug/L		103	59 - 122	6	30
4-Methylphenol	80.0	45.9		ug/L		57	33 - 120	2	30
4-Nitroaniline	80.0	62.8		ug/L		79	45 - 120	1	30
4-Nitrophenol	160	47.7		ug/L		30	12 - 120	4	30
Acenaphthene	80.0	70.0		ug/L		88	49 - 120	4	30
Acenaphthylene	80.0	70.7		ug/L		88	60 - 120	2	30
Acetophenone	80.0	63.1		ug/L		79	62 - 120	4	30
Anthracene	80.0	74.2		ug/L		93	65 - 120	1	30
Atrazine	40.0	69.0	*	ug/L		172	43 - 150	1	30
Benzaldehyde	40.0	53.1		ug/L		133	41 - 150	2	30
Benzo[a]anthracene	80.0	77.7		ug/L		97	63 - 120	2	30
Benzo[a]pyrene	80.0	75.9		ug/L		95	60 - 139	3	30
Benzo[b]fluoranthene	80.0	82.4		ug/L		103	66 - 125	5	30
Benzo[g,h,i]perylene	80.0	81.2		ug/L		102	59 - 136	4	30
Benzo[k]fluoranthene	80.0	78.6		ug/L		98	64 - 125	0	30
Bis(2-chloroethoxy)methane	80.0	66.7		ug/L		83	64 - 120	0	30
Bis(2-chloroethyl)ether	80.0	64.5		ug/L		81	63 - 120	0	30
Bis(2-ethylhexyl) phthalate	80.0	80.9		ug/L		101	60 - 132	0	30
Butyl benzyl phthalate	80.0	83.0		ug/L		104	58 - 132	0	30
Caprolactam	40.0	16.2		ug/L		41	10 - 120	11	30
Carbazole	80.0	72.8		ug/L		91	65 - 120	2	30
Chrysene	80.0	73.1		ug/L		91	63 - 120	0	30
Dibenz(a,h)anthracene	80.0	89.9		ug/L		112	62 - 140	4	30
Dibenzofuran	80.0	76.5		ug/L		96	58 - 120	2	30
Diethyl phthalate	80.0	80.2		ug/L		100	53 - 129	4	30
Dimethyl phthalate	80.0	78.5		ug/L		98	60 - 124	3	30
Di-n-butyl phthalate	80.0	77.7		ug/L		97	59 - 133	3	30
Di-n-octyl phthalate	80.0	78.8		ug/L		99	49 - 135	2	30
Fluoranthene	80.0	76.1		ug/L		95	65 - 123	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870445/3-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870445

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene			80.0	77.7		ug/L		97	58 - 120	5	30
Hexachlorobenzene			80.0	85.0		ug/L		106	61 - 128	3	30
Hexachlorobutadiene			80.0	52.6		ug/L		66	27 - 127	2	30
Hexachlorocyclopentadiene			80.0	75.0		ug/L		94	24 - 123	7	30
Hexachloroethane			80.0	33.9		ug/L		42	26 - 120	2	30
Indeno[1,2,3-cd]pyrene			80.0	91.9		ug/L		115	59 - 137	2	30
Isophorone			80.0	71.0		ug/L		89	68 - 121	2	30
Naphthalene			80.0	56.0		ug/L		70	51 - 120	0	30
Nitrobenzene			80.0	63.2		ug/L		79	64 - 120	1	30
N-Nitrosodi-n-propylamine			80.0	61.7		ug/L		77	60 - 120	2	30
N-Nitrosodiphenylamine			80.0	75.4		ug/L		94	63 - 120	4	30
Pentachlorophenol			160	153		ug/L		95	24 - 131	0	30
Phenanthrene			80.0	74.1		ug/L		93	65 - 120	2	30
Phenol			80.0	26.1		ug/L		33	18 - 120	4	30
Pyrene			80.0	75.6		ug/L		95	51 - 124	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*37 - 150*
2-Fluorobiphenyl	*92*		*46 - 139*
2-Fluorophenol (Surr)	*49*		*19 - 80*
Nitrobenzene-d5 (Surr)	*89*		*52 - 137*
Phenol-d5 (Surr)	*32*		*10 - 56*
Terphenyl-d14 (Surr)	*77*		*22 - 150*

Lab Sample ID: MB 460-870657/1-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Methylphenol	10	U	10	0.67	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/07/22 10:38	10/07/22 23:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870657/1-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/07/22 10:38	10/07/22 23:46	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/07/22 23:46	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Methylphenol	10	U	10	0.65	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/07/22 10:38	10/07/22 23:46	1
Acenaphthene	10	U	10	1.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
Acenaphthylene	10	U	10	0.82	ug/L		10/07/22 10:38	10/07/22 23:46	1
Acetophenone	10	U	10	2.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Anthracene	10	U	10	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzaldehyde	10	U	10	2.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/07/22 10:38	10/07/22 23:46	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/07/22 10:38	10/07/22 23:46	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/07/22 10:38	10/07/22 23:46	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/07/22 10:38	10/07/22 23:46	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/07/22 10:38	10/07/22 23:46	1
Caprolactam	10	U	10	2.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
Carbazole	10	U	10	0.68	ug/L		10/07/22 10:38	10/07/22 23:46	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/07/22 10:38	10/07/22 23:46	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/07/22 10:38	10/07/22 23:46	1
Dibenzofuran	10	U	10	1.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/07/22 10:38	10/07/22 23:46	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/07/22 10:38	10/07/22 23:46	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/07/22 10:38	10/07/22 23:46	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
Fluoranthene	10	U	10	0.84	ug/L		10/07/22 10:38	10/07/22 23:46	1
Fluorene	10	U	10	0.91	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/07/22 10:38	10/07/22 23:46	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/07/22 10:38	10/07/22 23:46	1
Isophorone	10	U	10	0.80	ug/L		10/07/22 10:38	10/07/22 23:46	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/07/22 10:38	10/07/22 23:46	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/07/22 10:38	10/07/22 23:46	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/07/22 10:38	10/07/22 23:46	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/07/22 10:38	10/07/22 23:46	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/07/22 10:38	10/07/22 23:46	1
Phenanthrene	10	U	10	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Phenol	10	U	10	0.29	ug/L		10/07/22 10:38	10/07/22 23:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870657/1-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	10	U	10	1.6	ug/L		10/07/22 10:38	10/07/22 23:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*124*		*37 - 150*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
2-Fluorobiphenyl	*103*		*46 - 139*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
2-Fluorophenol (Surr)	*47*		*19 - 80*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
Nitrobenzene-d5 (Surr)	*96*		*52 - 137*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
Terphenyl-d14 (Surr)	*84*		*22 - 150*	*10/07/22 10:38*	*10/07/22 23:46*	*1*

Lab Sample ID: LCS 460-870657/2-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	74.0		ug/L		93	53 - 120
1,2,4,5-Tetrachlorobenzene	80.0	76.9		ug/L		96	46 - 117
1,4-Dioxane	80.0	34.8		ug/L		43	26 - 120
2,2'-oxybis[1-chloropropane]	80.0	34.8		ug/L		43	37 - 120
2,3,4,6-Tetrachlorophenol	80.0	92.0		ug/L		115	54 - 122
2,4,5-Trichlorophenol	80.0	82.7		ug/L		103	58 - 120
2,4,6-Trichlorophenol	80.0	83.2		ug/L		104	61 - 120
2,4-Dichlorophenol	80.0	73.9		ug/L		92	65 - 120
2,4-Dimethylphenol	80.0	64.3		ug/L		80	62 - 120
2,4-Dinitrophenol	160	174		ug/L		109	36 - 150
2,4-Dinitrotoluene	80.0	97.1		ug/L		121	68 - 134
2,6-Dinitrotoluene	80.0	89.1		ug/L		111	65 - 124
2-Chloronaphthalene	80.0	76.3		ug/L		95	52 - 120
2-Chlorophenol	80.0	59.2		ug/L		74	53 - 120
2-Methylnaphthalene	80.0	59.4		ug/L		74	44 - 120
2-Methylphenol	80.0	50.9		ug/L		64	44 - 120
2-Nitroaniline	80.0	62.3		ug/L		78	49 - 120
2-Nitrophenol	80.0	77.7		ug/L		97	60 - 125
3 & 4 Methylphenol	80.0	46.4		ug/L		58	35 - 120
3,3'-Dichlorobenzidine	80.0	76.4		ug/L		96	37 - 137
3-Nitroaniline	80.0	73.4		ug/L		92	40 - 120
4,6-Dinitro-2-methylphenol	160	179		ug/L		112	59 - 135
4-Bromophenyl phenyl ether	80.0	82.7		ug/L		103	62 - 125
4-Chloro-3-methylphenol	80.0	72.9		ug/L		91	61 - 120
4-Chloroaniline	80.0	61.4		ug/L		77	29 - 127
4-Chlorophenyl phenyl ether	80.0	86.7		ug/L		108	59 - 122
4-Methylphenol	80.0	46.1		ug/L		58	33 - 120
4-Nitroaniline	80.0	86.4		ug/L		108	45 - 120
4-Nitrophenol	160	69.8		ug/L		44	12 - 120
Acenaphthene	80.0	77.7		ug/L		97	49 - 120
Acenaphthylene	80.0	74.4		ug/L		93	60 - 120
Acetophenone	80.0	69.2		ug/L		87	62 - 120
Anthracene	80.0	79.8		ug/L		100	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870657/2-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	40.0	74.0	*	ug/L		185	43 - 150
Benzaldehyde	40.0	48.6		ug/L		121	41 - 150
Benzo[a]anthracene	80.0	80.0		ug/L		100	63 - 120
Benzo[a]pyrene	80.0	76.3		ug/L		95	60 - 139
Benzo[b]fluoranthene	80.0	82.8		ug/L		103	66 - 125
Benzo[g,h,i]perylene	80.0	90.1		ug/L		113	59 - 136
Benzo[k]fluoranthene	80.0	84.5		ug/L		106	64 - 125
Bis(2-chloroethoxy)methane	80.0	67.9		ug/L		85	64 - 120
Bis(2-chloroethyl)ether	80.0	63.3		ug/L		79	63 - 120
Bis(2-ethylhexyl) phthalate	80.0	85.0		ug/L		106	60 - 132
Butyl benzyl phthalate	80.0	77.0		ug/L		96	58 - 132
Caprolactam	40.0	19.6		ug/L		49	10 - 120
Carbazole	80.0	83.0		ug/L		104	65 - 120
Chrysene	80.0	81.6		ug/L		102	63 - 120
Dibenz(a,h)anthracene	80.0	101		ug/L		126	62 - 140
Dibenzofuran	80.0	83.2		ug/L		104	58 - 120
Diethyl phthalate	80.0	85.0		ug/L		106	53 - 129
Dimethyl phthalate	80.0	85.6		ug/L		107	60 - 124
Di-n-butyl phthalate	80.0	77.8		ug/L		97	59 - 133
Di-n-octyl phthalate	80.0	91.2		ug/L		114	49 - 135
Fluoranthene	80.0	86.7		ug/L		108	65 - 123
Fluorene	80.0	85.2		ug/L		107	58 - 120
Hexachlorobenzene	80.0	86.4		ug/L		108	61 - 128
Hexachlorobutadiene	80.0	48.5		ug/L		61	27 - 127
Hexachlorocyclopentadiene	80.0	60.2		ug/L		75	24 - 123
Hexachloroethane	80.0	30.5		ug/L		38	26 - 120
Indeno[1,2,3-cd]pyrene	80.0	97.1		ug/L		121	59 - 137
Isophorone	80.0	71.0		ug/L		89	68 - 121
Naphthalene	80.0	55.8		ug/L		70	51 - 120
Nitrobenzene	80.0	67.8		ug/L		85	64 - 120
N-Nitrosodi-n-propylamine	80.0	67.5		ug/L		84	60 - 120
N-Nitrosodiphenylamine	80.0	76.3		ug/L		95	63 - 120
Pentachlorophenol	160	166		ug/L		104	24 - 131
Phenanthrene	80.0	80.2		ug/L		100	65 - 120
Phenol	80.0	31.0		ug/L		39	18 - 120
Pyrene	80.0	76.5		ug/L		96	51 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*119*		*37 - 150*
2-Fluorobiphenyl	*95*		*46 - 139*
2-Fluorophenol (Surr)	*42*		*19 - 80*
Nitrobenzene-d5 (Surr)	*85*		*52 - 137*
Phenol-d5 (Surr)	*31*		*10 - 56*
Terphenyl-d14 (Surr)	*77*		*22 - 150*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870657/3-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	73.6		ug/L		92	53 - 120	1	30
1,2,4,5-Tetrachlorobenzene			80.0	74.9		ug/L		94	46 - 117	3	30
1,4-Dioxane			80.0	38.1		ug/L		48	26 - 120	9	30
2,2'-oxybis[1-chloropropane]			80.0	36.2		ug/L		45	37 - 120	4	30
2,3,4,6-Tetrachlorophenol			80.0	91.3		ug/L		114	54 - 122	1	30
2,4,5-Trichlorophenol			80.0	81.9		ug/L		102	58 - 120	1	30
2,4,6-Trichlorophenol			80.0	82.5		ug/L		103	61 - 120	1	30
2,4-Dichlorophenol			80.0	75.1		ug/L		94	65 - 120	2	30
2,4-Dimethylphenol			80.0	64.9		ug/L		81	62 - 120	1	30
2,4-Dinitrophenol			160	182		ug/L		114	36 - 150	5	30
2,4-Dinitrotoluene			80.0	96.9		ug/L		121	68 - 134	0	30
2,6-Dinitrotoluene			80.0	89.3		ug/L		112	65 - 124	0	30
2-Chloronaphthalene			80.0	75.1		ug/L		94	52 - 120	2	30
2-Chlorophenol			80.0	60.5		ug/L		76	53 - 120	2	30
2-Methylnaphthalene			80.0	59.8		ug/L		75	44 - 120	1	30
2-Methylphenol			80.0	53.0		ug/L		66	44 - 120	4	30
2-Nitroaniline			80.0	61.6		ug/L		77	49 - 120	1	30
2-Nitrophenol			80.0	75.2		ug/L		94	60 - 125	3	30
3 & 4 Methylphenol			80.0	48.5		ug/L		61	35 - 120	4	30
3,3'-Dichlorobenzidine			80.0	79.3		ug/L		99	37 - 137	4	30
3-Nitroaniline			80.0	69.8		ug/L		87	40 - 120	5	30
4,6-Dinitro-2-methylphenol			160	181		ug/L		113	59 - 135	1	30
4-Bromophenyl phenyl ether			80.0	81.1		ug/L		101	62 - 125	2	30
4-Chloro-3-methylphenol			80.0	73.2		ug/L		91	61 - 120	0	30
4-Chloroaniline			80.0	62.4		ug/L		78	29 - 127	2	30
4-Chlorophenyl phenyl ether			80.0	84.8		ug/L		106	59 - 122	2	30
4-Methylphenol			80.0	46.2		ug/L		58	33 - 120	0	30
4-Nitroaniline			80.0	85.7		ug/L		107	45 - 120	1	30
4-Nitrophenol			160	69.6		ug/L		44	12 - 120	0	30
Acenaphthene			80.0	75.5		ug/L		94	49 - 120	3	30
Acenaphthylene			80.0	73.1		ug/L		91	60 - 120	2	30
Acetophenone			80.0	70.5		ug/L		88	62 - 120	2	30
Anthracene			80.0	77.3		ug/L		97	65 - 120	3	30
Atrazine			40.0	75.2	*	ug/L		188	43 - 150	2	30
Benzaldehyde			40.0	50.0		ug/L		125	41 - 150	3	30
Benzo[a]anthracene			80.0	81.3		ug/L		102	63 - 120	2	30
Benzo[a]pyrene			80.0	76.6		ug/L		96	60 - 139	0	30
Benzo[b]fluoranthene			80.0	83.7		ug/L		105	66 - 125	1	30
Benzo[g,h,i]perylene			80.0	90.2		ug/L		113	59 - 136	0	30
Benzo[k]fluoranthene			80.0	86.1		ug/L		108	64 - 125	2	30
Bis(2-chloroethoxy)methane			80.0	68.1		ug/L		85	64 - 120	0	30
Bis(2-chloroethyl)ether			80.0	64.3		ug/L		80	63 - 120	2	30
Bis(2-ethylhexyl) phthalate			80.0	86.0		ug/L		107	60 - 132	1	30
Butyl benzyl phthalate			80.0	79.4		ug/L		99	58 - 132	3	30
Caprolactam			40.0	20.3		ug/L		51	10 - 120	3	30
Carbazole			80.0	82.5		ug/L		103	65 - 120	1	30
Chrysene			80.0	82.2		ug/L		103	63 - 120	1	30
Dibenz(a,h)anthracene			80.0	99.2		ug/L		124	62 - 140	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870657/3-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			80.0	81.6		ug/L		102	58 - 120	2	30
Diethyl phthalate			80.0	83.2		ug/L		104	53 - 129	2	30
Dimethyl phthalate			80.0	84.5		ug/L		106	60 - 124	1	30
Di-n-butyl phthalate			80.0	76.1		ug/L		95	59 - 133	2	30
Di-n-octyl phthalate			80.0	88.9		ug/L		111	49 - 135	3	30
Fluoranthene			80.0	85.9		ug/L		107	65 - 123	1	30
Fluorene			80.0	84.9		ug/L		106	58 - 120	0	30
Hexachlorobenzene			80.0	86.1		ug/L		108	61 - 128	0	30
Hexachlorobutadiene			80.0	49.6		ug/L		62	27 - 127	2	30
Hexachlorocyclopentadiene			80.0	59.5		ug/L		74	24 - 123	1	30
Hexachloroethane			80.0	31.2		ug/L		39	26 - 120	2	30
Indeno[1,2,3-cd]pyrene			80.0	94.7		ug/L		118	59 - 137	2	30
Isophorone			80.0	71.3		ug/L		89	68 - 121	0	30
Naphthalene			80.0	55.6		ug/L		70	51 - 120	0	30
Nitrobenzene			80.0	72.1		ug/L		90	64 - 120	6	30
N-Nitrosodi-n-propylamine			80.0	68.2		ug/L		85	60 - 120	1	30
N-Nitrosodiphenylamine			80.0	76.2		ug/L		95	63 - 120	0	30
Pentachlorophenol			160	165		ug/L		103	24 - 131	1	30
Phenanthrene			80.0	79.0		ug/L		99	65 - 120	2	30
Phenol			80.0	30.6		ug/L		38	18 - 120	2	30
Pyrene			80.0	76.8		ug/L		96	51 - 124	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*118*		*37 - 150*
2-Fluorobiphenyl	*94*		*46 - 139*
2-Fluorophenol (Surr)	*43*		*19 - 80*
Nitrobenzene-d5 (Surr)	*86*		*52 - 137*
Phenol-d5 (Surr)	*31*		*10 - 56*
Terphenyl-d14 (Surr)	*79*		*22 - 150*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-870354/1-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 06:05	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 06:05	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 06:05	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 06:05	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870354/1-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 06:05	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 06:05	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 06:05	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 06:05	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 06:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*126*	*	*15 - 121*	*10/05/22 23:06*	*10/06/22 06:05*	*1*
DCB Decachlorobiphenyl	*89*		*15 - 121*	*10/05/22 23:06*	*10/06/22 06:05*	*1*
Tetrachloro-m-xylene	*92*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:05*	*1*
Tetrachloro-m-xylene	*80*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:05*	*1*

Lab Sample ID: LCS 460-870354/2-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.800	0.958		ug/L		120	59 - 125
4,4'-DDD	0.800	0.823		ug/L		103	59 - 125
4,4'-DDE	0.800	0.890		ug/L		111	60 - 128
4,4'-DDE	0.800	0.692		ug/L		87	60 - 128
4,4'-DDT	0.800	1.02		ug/L		128	42 - 136
4,4'-DDT	0.800	0.833		ug/L		104	42 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870354/2-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870354

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.800	0.830		ug/L		104	58 - 125		
Aldrin			0.800	0.741		ug/L		93	58 - 125		
alpha-BHC			0.800	0.823		ug/L		103	65 - 122		
alpha-BHC			0.800	0.780		ug/L		97	65 - 122		
beta-BHC			0.800	0.838		ug/L		105	66 - 128		
beta-BHC			0.800	0.836		ug/L		105	66 - 128		
cis-Chlordane			0.800	0.872		ug/L		109	57 - 123		
cis-Chlordane			0.800	0.737		ug/L		92	57 - 123		
delta-BHC			0.800	0.705		ug/L		88	38 - 125		
delta-BHC			0.800	0.738		ug/L		92	38 - 125		
Dieldrin			0.800	0.924		ug/L		115	57 - 133		
Dieldrin			0.800	0.772		ug/L		97	57 - 133		
Endosulfan I			0.800	0.893		ug/L		112	56 - 124		
Endosulfan I			0.800	0.752		ug/L		94	56 - 124		
Endosulfan II			0.800	0.966		ug/L		121	56 - 134		
Endosulfan II			0.800	0.831		ug/L		104	56 - 134		
Endosulfan sulfate			0.800	0.932		ug/L		116	54 - 124		
Endosulfan sulfate			0.800	0.812		ug/L		102	54 - 124		
Endrin			0.800	0.884		ug/L		110	57 - 135		
Endrin			0.800	0.771		ug/L		96	57 - 135		
Endrin aldehyde			0.800	0.906		ug/L		113	54 - 122		
Endrin aldehyde			0.800	0.791		ug/L		99	54 - 122		
Endrin ketone			0.800	1.10	*	ug/L		137	51 - 132		
Endrin ketone			0.800	0.857		ug/L		107	51 - 132		
gamma-BHC (Lindane)			0.800	0.853		ug/L		107	65 - 123		
gamma-BHC (Lindane)			0.800	0.778		ug/L		97	65 - 123		
Heptachlor			0.800	0.901		ug/L		113	59 - 120		
Heptachlor			0.800	0.819		ug/L		102	59 - 120		
Heptachlor epoxide			0.800	0.856		ug/L		107	59 - 128		
Heptachlor epoxide			0.800	0.762		ug/L		95	59 - 128		
Methoxychlor			0.800	1.04		ug/L		130	35 - 138		
Methoxychlor			0.800	0.831		ug/L		104	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*122*	*	*15 - 121*
DCB Decachlorobiphenyl	*88*		*15 - 121*
Tetrachloro-m-xylene	*90*		*17 - 120*
Tetrachloro-m-xylene	*79*		*17 - 120*

Lab Sample ID: LCSD 460-870354/3-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870354

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.943		ug/L		118	59 - 125	2	30
4,4'-DDD			0.800	0.851		ug/L		106	59 - 125	3	30
4,4'-DDE			0.800	0.879		ug/L		110	60 - 128	1	30
4,4'-DDE			0.800	0.691		ug/L		86	60 - 128	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870354/3-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870354

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDT			0.800	1.01		ug/L		126	42 - 136	1	30
4,4'-DDT			0.800	0.868		ug/L		109	42 - 136	4	30
Aldrin			0.800	0.822		ug/L		103	58 - 125	1	30
Aldrin			0.800	0.739		ug/L		92	58 - 125	0	30
alpha-BHC			0.800	0.824		ug/L		103	65 - 122	0	30
alpha-BHC			0.800	0.784		ug/L		98	65 - 122	1	30
beta-BHC			0.800	0.833		ug/L		104	66 - 128	1	30
beta-BHC			0.800	0.842		ug/L		105	66 - 128	1	30
cis-Chlordane			0.800	0.863		ug/L		108	57 - 123	1	30
cis-Chlordane			0.800	0.737		ug/L		92	57 - 123	0	30
delta-BHC			0.800	0.702		ug/L		88	38 - 125	0	30
delta-BHC			0.800	0.739		ug/L		92	38 - 125	0	30
Dieldrin			0.800	0.912		ug/L		114	57 - 133	1	30
Dieldrin			0.800	0.771		ug/L		96	57 - 133	0	30
Endosulfan I			0.800	0.883		ug/L		110	56 - 124	1	30
Endosulfan I			0.800	0.753		ug/L		94	56 - 124	0	30
Endosulfan II			0.800	0.956		ug/L		119	56 - 134	1	30
Endosulfan II			0.800	0.855		ug/L		107	56 - 134	3	30
Endosulfan sulfate			0.800	0.924		ug/L		116	54 - 124	1	30
Endosulfan sulfate			0.800	0.824		ug/L		103	54 - 124	2	30
Endrin			0.800	0.870		ug/L		109	57 - 135	2	30
Endrin			0.800	0.773		ug/L		97	57 - 135	0	30
Endrin aldehyde			0.800	0.899		ug/L		112	54 - 122	1	30
Endrin aldehyde			0.800	0.825		ug/L		103	54 - 122	4	30
Endrin ketone			0.800	1.10	*	ug/L		138	51 - 132	0	30
Endrin ketone			0.800	0.860		ug/L		107	51 - 132	0	30
gamma-BHC (Lindane)			0.800	0.853		ug/L		107	65 - 123	0	30
gamma-BHC (Lindane)			0.800	0.784		ug/L		98	65 - 123	1	30
Heptachlor			0.800	0.897		ug/L		112	59 - 120	0	30
Heptachlor			0.800	0.819		ug/L		102	59 - 120	0	30
Heptachlor epoxide			0.800	0.847		ug/L		106	59 - 128	1	30
Heptachlor epoxide			0.800	0.762		ug/L		95	59 - 128	0	30
Methoxychlor			0.800	1.04		ug/L		130	35 - 138	0	30
Methoxychlor			0.800	0.866		ug/L		108	35 - 138	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*122*	*	*15 - 121*
DCB Decachlorobiphenyl	*87*		*15 - 121*
Tetrachloro-m-xylene	*89*		*17 - 120*
Tetrachloro-m-xylene	*79*		*17 - 120*

Lab Sample ID: MB 460-870667/1-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870667/1-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/07/22 11:19	10/10/22 11:42	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/07/22 11:19	10/10/22 11:42	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/07/22 11:19	10/10/22 11:42	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/07/22 11:19	10/10/22 11:42	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/07/22 11:19	10/10/22 11:42	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/07/22 11:19	10/10/22 11:42	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/07/22 11:19	10/10/22 11:42	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/07/22 11:19	10/10/22 11:42	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/07/22 11:19	10/10/22 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*15 - 121*	*10/07/22 11:19*	*10/10/22 11:42*	*1*
DCB Decachlorobiphenyl	*85*		*15 - 121*	*10/07/22 11:19*	*10/10/22 11:42*	*1*
Tetrachloro-m-xylene	*82*		*17 - 120*	*10/07/22 11:19*	*10/10/22 11:42*	*1*
Tetrachloro-m-xylene	*80*		*17 - 120*	*10/07/22 11:19*	*10/10/22 11:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870667/2-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.800	0.780		ug/L		97	59 - 125
4,4'-DDD	0.800	0.899		ug/L		112	59 - 125
4,4'-DDE	0.800	0.820		ug/L		103	60 - 128
4,4'-DDE	0.800	0.897		ug/L		112	60 - 128
4,4'-DDT	0.800	1.03		ug/L		129	42 - 136
4,4'-DDT	0.800	1.01		ug/L		126	42 - 136
Aldrin	0.800	0.804		ug/L		101	58 - 125
Aldrin	0.800	0.878		ug/L		110	58 - 125
alpha-BHC	0.800	0.819		ug/L		102	65 - 122
alpha-BHC	0.800	0.885		ug/L		111	65 - 122
beta-BHC	0.800	0.778		ug/L		97	66 - 128
beta-BHC	0.800	0.865		ug/L		108	66 - 128
cis-Chlordane	0.800	0.768		ug/L		96	57 - 123
cis-Chlordane	0.800	0.860		ug/L		107	57 - 123
delta-BHC	0.800	0.721		ug/L		90	38 - 125
delta-BHC	0.800	0.769		ug/L		96	38 - 125
Dieldrin	0.800	0.824		ug/L		103	57 - 133
Dieldrin	0.800	0.884		ug/L		110	57 - 133
Endosulfan I	0.800	0.806		ug/L		101	56 - 124
Endosulfan I	0.800	0.873		ug/L		109	56 - 124
Endosulfan II	0.800	0.807		ug/L		101	56 - 134
Endosulfan II	0.800	0.924		ug/L		115	56 - 134
Endosulfan sulfate	0.800	0.742		ug/L		93	54 - 124
Endosulfan sulfate	0.800	0.788		ug/L		99	54 - 124
Endrin	0.800	0.811		ug/L		101	57 - 135
Endrin	0.800	0.893		ug/L		112	57 - 135
Endrin aldehyde	0.800	0.794		ug/L		99	54 - 122
Endrin aldehyde	0.800	0.837		ug/L		105	54 - 122
Endrin ketone	0.800	0.858		ug/L		107	51 - 132
Endrin ketone	0.800	0.884		ug/L		110	51 - 132
gamma-BHC (Lindane)	0.800	0.814		ug/L		102	65 - 123
gamma-BHC (Lindane)	0.800	0.899		ug/L		112	65 - 123
Heptachlor	0.800	0.824		ug/L		103	59 - 120
Heptachlor	0.800	0.888		ug/L		111	59 - 120
Heptachlor epoxide	0.800	0.796		ug/L		100	59 - 128
Heptachlor epoxide	0.800	0.880		ug/L		110	59 - 128
Methoxychlor	0.800	0.965		ug/L		121	35 - 138
Methoxychlor	0.800	0.965		ug/L		121	35 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*15 - 121*
DCB Decachlorobiphenyl	*91*		*15 - 121*
Tetrachloro-m-xylene	*83*		*17 - 120*
Tetrachloro-m-xylene	*86*		*17 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870667/3-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870667

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.800		ug/L		100	59 - 125	3	30
4,4'-DDD			0.800	0.852		ug/L		106	59 - 125	5	30
4,4'-DDE			0.800	0.841		ug/L		105	60 - 128	2	30
4,4'-DDE			0.800	0.853		ug/L		107	60 - 128	5	30
4,4'-DDT			0.800	1.03		ug/L		129	42 - 136	0	30
4,4'-DDT			0.800	0.974		ug/L		122	42 - 136	4	30
Aldrin			0.800	0.842		ug/L		105	58 - 125	5	30
Aldrin			0.800	0.855		ug/L		107	58 - 125	3	30
alpha-BHC			0.800	0.845		ug/L		106	65 - 122	3	30
alpha-BHC			0.800	0.863		ug/L		108	65 - 122	3	30
beta-BHC			0.800	0.812		ug/L		102	66 - 128	4	30
beta-BHC			0.800	0.849		ug/L		106	66 - 128	2	30
cis-Chlordane			0.800	0.796		ug/L		100	57 - 123	4	30
cis-Chlordane			0.800	0.838		ug/L		105	57 - 123	3	30
delta-BHC			0.800	0.745		ug/L		93	38 - 125	3	30
delta-BHC			0.800	0.746		ug/L		93	38 - 125	3	30
Dieldrin			0.800	0.840		ug/L		105	57 - 133	2	30
Dieldrin			0.800	0.854		ug/L		107	57 - 133	3	30
Endosulfan I			0.800	0.838		ug/L		105	56 - 124	4	30
Endosulfan I			0.800	0.854		ug/L		107	56 - 124	2	30
Endosulfan II			0.800	0.849		ug/L		106	56 - 134	5	30
Endosulfan II			0.800	0.881		ug/L		110	56 - 134	5	30
Endosulfan sulfate			0.800	0.774		ug/L		97	54 - 124	4	30
Endosulfan sulfate			0.800	0.765		ug/L		96	54 - 124	3	30
Endrin			0.800	0.835		ug/L		104	57 - 135	3	30
Endrin			0.800	0.854		ug/L		107	57 - 135	5	30
Endrin aldehyde			0.800	0.828		ug/L		103	54 - 122	4	30
Endrin aldehyde			0.800	0.824		ug/L		103	54 - 122	1	30
Endrin ketone			0.800	0.908		ug/L		113	51 - 132	6	30
Endrin ketone			0.800	0.866		ug/L		108	51 - 132	2	30
gamma-BHC (Lindane)			0.800	0.848		ug/L		106	65 - 123	4	30
gamma-BHC (Lindane)			0.800	0.878		ug/L		110	65 - 123	2	30
Heptachlor			0.800	0.856		ug/L		107	59 - 120	4	30
Heptachlor			0.800	0.863		ug/L		108	59 - 120	3	30
Heptachlor epoxide			0.800	0.830		ug/L		104	59 - 128	4	30
Heptachlor epoxide			0.800	0.860		ug/L		107	59 - 128	2	30
Methoxychlor			0.800	0.931		ug/L		116	35 - 138	4	30
Methoxychlor			0.800	0.895		ug/L		112	35 - 138	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*15 - 121*
DCB Decachlorobiphenyl	*90*		*15 - 121*
Tetrachloro-m-xylene	*85*		*17 - 120*
Tetrachloro-m-xylene	*85*		*17 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266842-J-4-B MS
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.020	U	0.800	0.735		ug/L		92	59 - 125
4,4'-DDD	0.020	U	0.800	0.785		ug/L		98	59 - 125
4,4'-DDE	0.020	U	0.800	0.737		ug/L		92	60 - 128
4,4'-DDE	0.020	U	0.800	0.750		ug/L		94	60 - 128
4,4'-DDT	0.020	U	0.800	0.945		ug/L		118	42 - 136
4,4'-DDT	0.020	U	0.800	0.884		ug/L		111	42 - 136
Aldrin	0.020	U	0.800	0.707		ug/L		88	58 - 125
Aldrin	0.020	U	0.800	0.713		ug/L		89	58 - 125
alpha-BHC	0.020	U	0.800	0.781		ug/L		98	65 - 122
alpha-BHC	0.020	U	0.800	0.810		ug/L		101	65 - 122
beta-BHC	0.020	U	0.800	0.777		ug/L		97	66 - 128
beta-BHC	0.020	U	0.800	0.826		ug/L		103	66 - 128
cis-Chlordane	0.020	U	0.800	0.737		ug/L		92	57 - 123
cis-Chlordane	0.020	U	0.800	0.802		ug/L		100	57 - 123
delta-BHC	0.020	U	0.800	0.634		ug/L		79	38 - 125
delta-BHC	0.020	U	0.800	0.641		ug/L		80	38 - 125
Dieldrin	0.020	U	0.800	0.798		ug/L		100	57 - 133
Dieldrin	0.020	U	0.800	0.820		ug/L		103	57 - 133
Endosulfan I	0.020	U	0.800	0.797		ug/L		100	56 - 124
Endosulfan I	0.020	U	0.800	0.816		ug/L		102	56 - 124
Endosulfan II	0.020	U	0.800	0.802		ug/L		100	56 - 134
Endosulfan II	0.020	U	0.800	0.823		ug/L		103	56 - 134
Endosulfan sulfate	0.020	U	0.800	0.733		ug/L		92	54 - 124
Endosulfan sulfate	0.020	U	0.800	0.722		ug/L		90	54 - 124
Endrin	0.020	U	0.800	0.798		ug/L		100	57 - 135
Endrin	0.020	U	0.800	0.821		ug/L		103	57 - 135
Endrin aldehyde	0.020	U	0.800	0.736		ug/L		92	54 - 122
Endrin aldehyde	0.020	U	0.800	0.738		ug/L		92	54 - 122
Endrin ketone	0.020	U	0.800	0.833		ug/L		104	51 - 132
Endrin ketone	0.020	U	0.800	0.845		ug/L		106	51 - 132
gamma-BHC (Lindane)	0.020	U	0.800	0.798		ug/L		100	65 - 123
gamma-BHC (Lindane)	0.020	U	0.800	0.835		ug/L		104	65 - 123
Heptachlor	0.020	U	0.800	0.739		ug/L		92	59 - 120
Heptachlor	0.020	U	0.800	0.755		ug/L		94	59 - 120
Heptachlor epoxide	0.020	U	0.800	0.784		ug/L		98	59 - 128
Heptachlor epoxide	0.020	U	0.800	0.818		ug/L		102	59 - 128
Methoxychlor	0.020	U	0.800	0.941		ug/L		118	35 - 138
Methoxychlor	0.020	U	0.800	0.869		ug/L		109	35 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*82*		*15 - 121*
DCB Decachlorobiphenyl	*98*		*15 - 121*
Tetrachloro-m-xylene	*57*		*17 - 120*
Tetrachloro-m-xylene	*59*		*17 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266842-J-4-C MSD
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.020	U	0.800	0.757		ug/L		95	59 - 125	3	30
4,4'-DDD	0.020	U	0.800	0.796		ug/L		99	59 - 125	1	30
4,4'-DDE	0.020	U	0.800	0.770		ug/L		96	60 - 128	4	30
4,4'-DDE	0.020	U	0.800	0.782		ug/L		98	60 - 128	4	30
4,4'-DDT	0.020	U	0.800	0.964		ug/L		120	42 - 136	2	30
4,4'-DDT	0.020	U	0.800	0.911		ug/L		114	42 - 136	3	30
Aldrin	0.020	U	0.800	0.738		ug/L		92	58 - 125	4	30
Aldrin	0.020	U	0.800	0.739		ug/L		92	58 - 125	4	30
alpha-BHC	0.020	U	0.800	0.752		ug/L		94	65 - 122	4	30
alpha-BHC	0.020	U	0.800	0.774		ug/L		97	65 - 122	4	30
beta-BHC	0.020	U	0.800	0.779		ug/L		97	66 - 128	0	30
beta-BHC	0.020	U	0.800	0.825		ug/L		103	66 - 128	0	30
cis-Chlordane	0.020	U	0.800	0.746		ug/L		93	57 - 123	1	30
cis-Chlordane	0.020	U	0.800	0.804		ug/L		101	57 - 123	0	30
delta-BHC	0.020	U	0.800	0.634		ug/L		79	38 - 125	0	30
delta-BHC	0.020	U	0.800	0.640		ug/L		80	38 - 125	0	30
Dieldrin	0.020	U	0.800	0.816		ug/L		102	57 - 133	2	30
Dieldrin	0.020	U	0.800	0.823		ug/L		103	57 - 133	0	30
Endosulfan I	0.020	U	0.800	0.794		ug/L		99	56 - 124	0	30
Endosulfan I	0.020	U	0.800	0.812		ug/L		102	56 - 124	1	30
Endosulfan II	0.020	U	0.800	0.821		ug/L		103	56 - 134	2	30
Endosulfan II	0.020	U	0.800	0.835		ug/L		104	56 - 134	1	30
Endosulfan sulfate	0.020	U	0.800	0.748		ug/L		93	54 - 124	2	30
Endosulfan sulfate	0.020	U	0.800	0.735		ug/L		92	54 - 124	2	30
Endrin	0.020	U	0.800	0.804		ug/L		101	57 - 135	1	30
Endrin	0.020	U	0.800	0.820		ug/L		103	57 - 135	0	30
Endrin aldehyde	0.020	U	0.800	0.740		ug/L		92	54 - 122	1	30
Endrin aldehyde	0.020	U	0.800	0.740		ug/L		92	54 - 122	0	30
Endrin ketone	0.020	U	0.800	0.851		ug/L		106	51 - 132	2	30
Endrin ketone	0.020	U	0.800	0.862		ug/L		108	51 - 132	2	30
gamma-BHC (Lindane)	0.020	U	0.800	0.782		ug/L		98	65 - 123	2	30
gamma-BHC (Lindane)	0.020	U	0.800	0.812		ug/L		101	65 - 123	3	30
Heptachlor	0.020	U	0.800	0.763		ug/L		95	59 - 120	3	30
Heptachlor	0.020	U	0.800	0.783		ug/L		98	59 - 120	4	30
Heptachlor epoxide	0.020	U	0.800	0.785		ug/L		98	59 - 128	0	30
Heptachlor epoxide	0.020	U	0.800	0.813		ug/L		102	59 - 128	1	30
Methoxychlor	0.020	U	0.800	0.958		ug/L		120	35 - 138	2	30
Methoxychlor	0.020	U	0.800	0.883		ug/L		110	35 - 138	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*112*		*15 - 121*
DCB Decachlorobiphenyl	*116*		*15 - 121*
Tetrachloro-m-xylene	*84*		*17 - 120*
Tetrachloro-m-xylene	*85*		*17 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-870353/1-A
Matrix: Water
Analysis Batch: 870405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*12 - 150*	*10/05/22 22:53*	*10/06/22 09:33*	*1*
DCB Decachlorobiphenyl	*83*		*12 - 150*	*10/05/22 22:53*	*10/06/22 09:33*	*1*
Tetrachloro-m-xylene	*69*		*11 - 131*	*10/05/22 22:53*	*10/06/22 09:33*	*1*
Tetrachloro-m-xylene	*68*		*11 - 131*	*10/05/22 22:53*	*10/06/22 09:33*	*1*

Lab Sample ID: LCS 460-870353/2-A
Matrix: Water
Analysis Batch: 870405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	4.00	3.03		ug/L		76	53 - 141
Aroclor 1016	4.00	3.02		ug/L		76	53 - 141
Aroclor 1260	4.00	3.14		ug/L		79	55 - 142
Aroclor 1260	4.00	3.01		ug/L		75	55 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*12 - 150*
DCB Decachlorobiphenyl	*81*		*12 - 150*
Tetrachloro-m-xylene	*73*		*11 - 131*
Tetrachloro-m-xylene	*71*		*11 - 131*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870353/3-A
Matrix: Water
Analysis Batch: 870405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870353

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	2.93		ug/L		73	53 - 141	4	30
Aroclor 1016			4.00	2.74		ug/L		69	53 - 141	10	30
Aroclor 1260			4.00	3.02		ug/L		76	55 - 142	4	30
Aroclor 1260			4.00	2.94		ug/L		73	55 - 142	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*12 - 150*
DCB Decachlorobiphenyl	*78*		*12 - 150*
Tetrachloro-m-xylene	*69*		*11 - 131*
Tetrachloro-m-xylene	*68*		*11 - 131*

Lab Sample ID: MB 460-870664/1-A
Matrix: Water
Analysis Batch: 871037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:01*	*1*
DCB Decachlorobiphenyl	*110*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:01*	*1*
Tetrachloro-m-xylene	*97*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:01*	*1*
Tetrachloro-m-xylene	*97*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-870664/2-A
Matrix: Water
Analysis Batch: 871037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			4.00	4.25		ug/L		106	53 - 141		
Aroclor 1016			4.00	3.99		ug/L		100	53 - 141		
Aroclor 1260			4.00	4.38		ug/L		110	55 - 142		
Aroclor 1260			4.00	4.13		ug/L		103	55 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*124*		*12 - 150*
DCB Decachlorobiphenyl	*116*		*12 - 150*
Tetrachloro-m-xylene	*109*		*11 - 131*
Tetrachloro-m-xylene	*75*		*11 - 131*

Lab Sample ID: LCSD 460-870664/3-A
Matrix: Water
Analysis Batch: 871037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870664

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	4.28		ug/L		107	53 - 141	7	30
Aroclor 1016			4.00	4.30		ug/L		107	53 - 141	1	30
Aroclor 1260			4.00	4.52		ug/L		113	55 - 142	3	30
Aroclor 1260			4.00	4.43		ug/L		111	55 - 142	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*124*		*12 - 150*
DCB Decachlorobiphenyl	*119*		*12 - 150*
Tetrachloro-m-xylene	*107*		*11 - 131*
Tetrachloro-m-xylene	*101*		*11 - 131*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U	2.0	0.76	ug/L		10/05/22 21:01	10/05/22 23:19	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/05/22 21:01	10/05/22 23:19	1
Barium	4.0	U	4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:19	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/05/22 21:01	10/05/22 23:19	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/05/22 21:01	10/05/22 23:19	1
Calcium	500	U	500	53.6	ug/L		10/05/22 21:01	10/05/22 23:19	1
Chromium	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:19	1
Cobalt	4.0	U	4.0	0.71	ug/L		10/05/22 21:01	10/05/22 23:19	1
Copper	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:19	1
Iron	120	U	120	58.2	ug/L		10/05/22 21:01	10/05/22 23:19	1
Lead	1.2	U	1.2	0.84	ug/L		10/05/22 21:01	10/05/22 23:19	1
Magnesium	200	U	200	46.9	ug/L		10/05/22 21:01	10/05/22 23:19	1
Manganese	8.0	U	8.0	1.5	ug/L		10/05/22 21:01	10/05/22 23:19	1
Nickel	4.0	U	4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:19	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	200	U	200	112	ug/L		10/05/22 21:01	10/05/22 23:19	1
Selenium	2.5	U	2.5	0.59	ug/L		10/05/22 21:01	10/05/22 23:19	1
Silver	2.0	U	2.0	0.29	ug/L		10/05/22 21:01	10/05/22 23:19	1
Sodium	500	U	500	163	ug/L		10/05/22 21:01	10/05/22 23:19	1
Thallium	0.80	U	0.80	0.21	ug/L		10/05/22 21:01	10/05/22 23:19	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/05/22 21:01	10/05/22 23:19	1
Zinc	16.0	U	16.0	6.5	ug/L		10/05/22 21:01	10/05/22 23:19	1

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2	U	1.2	0.84	ug/L		10/05/22 21:01	10/06/22 01:36	1

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/05/22 21:01	10/06/22 20:45	1

Lab Sample ID: LCS 460-870341/2-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	25.0	25.44		ug/L		102	80 - 120
Arsenic	50.0	53.10		ug/L		106	80 - 120
Barium	50.0	49.52		ug/L		99	80 - 120
Beryllium	25.0	27.84		ug/L		111	80 - 120
Cadmium	25.0	26.42		ug/L		106	80 - 120
Calcium	2500	2535		ug/L		101	80 - 120
Chromium	50.0	53.28		ug/L		107	80 - 120
Cobalt	25.0	27.11		ug/L		108	80 - 120
Copper	50.0	54.47		ug/L		109	80 - 120
Iron	2500	2627		ug/L		105	80 - 120
Magnesium	2500	2626		ug/L		105	80 - 120
Manganese	250	266.5		ug/L		107	80 - 120
Nickel	50.0	53.92		ug/L		108	80 - 120
Potassium	2500	2545		ug/L		102	80 - 120
Selenium	50.0	54.17		ug/L		108	80 - 120
Silver	25.0	26.04		ug/L		104	80 - 120
Sodium	2500	2676		ug/L		107	80 - 120
Thallium	20.0	21.02		ug/L		105	80 - 120
Vanadium	50.0	53.06		ug/L		106	80 - 120
Zinc	250	261.8		ug/L		105	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-870341/2-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	25.0	27.15		ug/L		109	80 - 120

Lab Sample ID: LCS 460-870341/2-A
Matrix: Water
Analysis Batch: 870468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2561		ug/L		102	80 - 120

Lab Sample ID: MB 460-870563/1-A
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 11:54	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 11:54	1
Barium	4.0	U	4.0	0.91	ug/L		10/06/22 19:16	10/09/22 11:54	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 11:54	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 11:54	1
Calcium	500	U	500	53.6	ug/L		10/06/22 19:16	10/09/22 11:54	1
Chromium	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Cobalt	4.0	U	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 11:54	1
Copper	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Iron	120	U	120	58.2	ug/L		10/06/22 19:16	10/09/22 11:54	1
Lead	1.2	U	1.2	0.84	ug/L		10/06/22 19:16	10/09/22 11:54	1
Magnesium	200	U	200	46.9	ug/L		10/06/22 19:16	10/09/22 11:54	1
Manganese	8.0	U	8.0	1.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Nickel	4.0	U	4.0	0.91	ug/L		10/06/22 19:16	10/09/22 11:54	1
Potassium	200	U	200	112	ug/L		10/06/22 19:16	10/09/22 11:54	1
Selenium	2.5	U	2.5	0.59	ug/L		10/06/22 19:16	10/09/22 11:54	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 11:54	1
Sodium	500	U	500	163	ug/L		10/06/22 19:16	10/09/22 11:54	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 11:54	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/06/22 19:16	10/09/22 11:54	1
Zinc	16.0	U	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 11:54	1

Lab Sample ID: LCS 460-870563/2-A
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2449		ug/L		98	80 - 120
Antimony	25.0	25.44		ug/L		102	80 - 120
Arsenic	50.0	48.96		ug/L		98	80 - 120
Barium	50.0	51.82		ug/L		104	80 - 120
Beryllium	25.0	24.84		ug/L		99	80 - 120
Cadmium	25.0	25.73		ug/L		103	80 - 120
Calcium	2500	2565		ug/L		103	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-870563/2-A
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	50.0	52.37		ug/L		105	80 - 120
Cobalt	25.0	25.36		ug/L		101	80 - 120
Copper	50.0	52.48		ug/L		105	80 - 120
Iron	2500	2580		ug/L		103	80 - 120
Lead	25.0	25.13		ug/L		101	80 - 120
Magnesium	2500	2549		ug/L		102	80 - 120
Manganese	250	257.9		ug/L		103	80 - 120
Nickel	50.0	51.75		ug/L		104	80 - 120
Potassium	2500	2501		ug/L		100	80 - 120
Selenium	50.0	48.60		ug/L		97	80 - 120
Silver	25.0	24.49		ug/L		98	80 - 120
Sodium	2500	2595		ug/L		104	80 - 120
Thallium	20.0	19.84		ug/L		99	80 - 120
Vanadium	50.0	50.58		ug/L		101	80 - 120
Zinc	250	254.7		ug/L		102	80 - 120

Lab Sample ID: 460-266887-F-8-C MS
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	39.5	J	2500	2582		ug/L		102	75 - 125
Antimony	2.0	U	25.0	27.53		ug/L		110	75 - 125
Arsenic	2.0	U	50.0	51.03		ug/L		102	75 - 125
Barium	29.9		50.0	82.82		ug/L		106	75 - 125
Beryllium	0.80	U	25.0	26.91		ug/L		108	75 - 125
Cadmium	2.0	U	25.0	27.30		ug/L		109	75 - 125
Calcium	14400		2500	16990	4	ug/L		103	75 - 125
Chromium	2.8	J	50.0	53.53		ug/L		102	75 - 125
Cobalt	4.0	U	25.0	26.82		ug/L		107	75 - 125
Copper	4.0	U	50.0	53.60		ug/L		107	75 - 125
Iron	120	U	2500	2671		ug/L		107	75 - 125
Lead	1.2	U	25.0	26.87		ug/L		107	75 - 125
Magnesium	11300		2500	13960	4	ug/L		104	75 - 125
Manganese	15.6		250	280.9		ug/L		106	75 - 125
Nickel	4.2		50.0	55.84		ug/L		103	75 - 125
Potassium	5660		2500	8158		ug/L		100	75 - 125
Selenium	2.5	U	50.0	51.83		ug/L		104	75 - 125
Silver	2.0	U	25.0	25.52		ug/L		102	75 - 125
Sodium	119000		2500	121200	4	ug/L		93	75 - 125
Thallium	0.80	U	20.0	21.12		ug/L		106	75 - 125
Vanadium	4.0	U	50.0	53.09		ug/L		106	75 - 125
Zinc	8.5	J	250	265.5		ug/L		103	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266887-F-8-B DU
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	39.5	J	35.40	J	ug/L		11	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	29.9		29.32		ug/L		2	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	14400		14570		ug/L		1	20
Chromium	2.8	J	2.77	J	ug/L		0.1	20
Cobalt	4.0	U	4.0	U	ug/L		NC	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	120	U	120	U	ug/L		NC	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Magnesium	11300		11400		ug/L		0.5	20
Manganese	15.6		15.45		ug/L		0.7	20
Nickel	4.2		4.41		ug/L		6	20
Potassium	5660		5636		ug/L		0.4	20
Selenium	2.5	U	2.5	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	119000		120700		ug/L		2	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20
Zinc	8.5	J	8.86	J	ug/L		4	20

Lab Sample ID: MB 460-871155/19-A
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Antimony	2.0	U	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 22:18	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 22:18	1
Barium	4.0	U	4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:18	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 22:18	1
Calcium	500	U	500	53.6	ug/L		10/10/22 20:34	10/10/22 22:18	1
Chromium	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Cobalt	4.0	U	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 22:18	1
Copper	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Iron	120	U	120	58.2	ug/L		10/10/22 20:34	10/10/22 22:18	1
Lead	1.2	U	1.2	0.84	ug/L		10/10/22 20:34	10/10/22 22:18	1
Magnesium	200	U	200	46.9	ug/L		10/10/22 20:34	10/10/22 22:18	1
Manganese	8.0	U	8.0	1.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Nickel	4.0	U	4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:18	1
Potassium	200	U	200	112	ug/L		10/10/22 20:34	10/10/22 22:18	1
Selenium	2.5	U	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 22:18	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 22:18	1
Sodium	500	U	500	163	ug/L		10/10/22 20:34	10/10/22 22:18	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 22:18	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 22:18	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 22:18	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-871155/19-A
Matrix: Water
Analysis Batch: 871269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/11/22 19:48	1

Lab Sample ID: LCS 460-871155/20-A
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2510		ug/L		100	80 - 120
Antimony	25.0	26.94		ug/L		108	80 - 120
Arsenic	50.0	51.63		ug/L		103	80 - 120
Barium	50.0	50.26		ug/L		101	80 - 120
Cadmium	25.0	26.22		ug/L		105	80 - 120
Calcium	2500	2581		ug/L		103	80 - 120
Chromium	50.0	51.76		ug/L		104	80 - 120
Cobalt	25.0	26.20		ug/L		105	80 - 120
Copper	50.0	52.39		ug/L		105	80 - 120
Iron	2500	2602		ug/L		104	80 - 120
Lead	25.0	26.25		ug/L		105	80 - 120
Magnesium	2500	2633		ug/L		105	80 - 120
Manganese	250	263.4		ug/L		105	80 - 120
Nickel	50.0	52.23		ug/L		104	80 - 120
Potassium	2500	2517		ug/L		101	80 - 120
Selenium	50.0	50.30		ug/L		101	80 - 120
Silver	25.0	26.70		ug/L		107	80 - 120
Sodium	2500	2799		ug/L		112	80 - 120
Thallium	20.0	20.44		ug/L		102	80 - 120
Vanadium	50.0	51.89		ug/L		104	80 - 120
Zinc	250	259.0		ug/L		104	80 - 120

Lab Sample ID: LCS 460-871155/20-A
Matrix: Water
Analysis Batch: 871269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	25.0	26.80		ug/L		107	80 - 120

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.0	U	25.0	21.81		ug/L		87	75 - 125
Arsenic	2.0	U	50.0	52.70		ug/L		105	75 - 125
Barium	107		50.0	157.7		ug/L		102	75 - 125
Beryllium	0.80	U	25.0	26.54		ug/L		106	75 - 125
Cadmium	2.0	U	25.0	25.53		ug/L		102	75 - 125
Calcium	88300		2500	91590	4	ug/L		132	75 - 125
Chromium	4.0	U	50.0	49.69		ug/L		99	75 - 125
Cobalt	1.7	J	25.0	26.64		ug/L		100	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	4.0	U	50.0	49.82		ug/L		100	75 - 125
Iron	120	U	2500	2505		ug/L		100	75 - 125
Magnesium	34500		2500	37010	4	ug/L		100	75 - 125
Manganese	450		250	696.9		ug/L		99	75 - 125
Nickel	3.9	J	50.0	52.60		ug/L		97	75 - 125
Potassium	3590		2500	6043		ug/L		98	75 - 125
Selenium	2.9		50.0	55.91		ug/L		106	75 - 125
Silver	2.0	U	25.0	23.99		ug/L		96	75 - 125
Sodium	141000		2500	142700	4	ug/L		56	75 - 125
Thallium	0.80	U	20.0	20.22		ug/L		101	75 - 125
Vanadium	4.0	U	50.0	50.97		ug/L		102	75 - 125
Zinc	16.0	U	250	249.5		ug/L		100	75 - 125

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.2	U	25.0	26.24		ug/L		105	75 - 125

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870468

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	40.0	U	2500	2536		ug/L		101	75 - 125

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	107		107.3		ug/L		0.7	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	88300		88940		ug/L		0.7	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	1.7	J	1.66	J	ug/L		3	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	120	U	120	U	ug/L		NC	20
Magnesium	34500		34170		ug/L		1	20
Manganese	450		444.9		ug/L		1	20
Nickel	3.9	J	3.73	J	ug/L		5	20
Potassium	3590		3560		ug/L		0.9	20
Selenium	2.9		2.83		ug/L		0.9	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	141000		138800		ug/L		2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	1.2	U	1.2	U	ug/L		NC	20

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870468

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	40.0	U	40.0	U	ug/L		NC	20

Lab Sample ID: 460-266466-F-1-C MS
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	40.0	U	2500	2435		ug/L		97	75 - 125
Antimony	2.0	U	25.0	21.82		ug/L		87	75 - 125
Arsenic	2.0	U	50.0	53.01		ug/L		106	75 - 125
Barium	85.1		50.0	133.2		ug/L		96	75 - 125
Cadmium	2.0	U	25.0	25.84		ug/L		103	75 - 125
Calcium	42700		2500	45270	4	ug/L		102	75 - 125
Chromium	4.0	U	50.0	50.21		ug/L		100	75 - 125
Cobalt	4.0	U	25.0	24.70		ug/L		99	75 - 125
Copper	4.0	U	50.0	49.08		ug/L		98	75 - 125
Iron	120	U	2500	2524		ug/L		101	75 - 125
Lead	1.2	U	25.0	25.13		ug/L		101	75 - 125
Magnesium	15300		2500	17620	4	ug/L		92	75 - 125
Manganese	212		250	460.4		ug/L		99	75 - 125
Nickel	2.7	J	50.0	51.84		ug/L		98	75 - 125
Potassium	9780		2500	11810		ug/L		81	75 - 125
Selenium	2.5	U	50.0	52.35		ug/L		105	75 - 125
Silver	2.0	U	25.0	26.13		ug/L		105	75 - 125
Sodium	74000		2500	75380	4	ug/L		56	75 - 125
Thallium	0.80	U	20.0	19.12		ug/L		96	75 - 125
Vanadium	4.0	U	50.0	49.45		ug/L		99	75 - 125
Zinc	16.0	U	250	248.0		ug/L		99	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266466-F-1-C MS
Matrix: Water
Analysis Batch: 871758

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	40.0	U	2500	2492		ug/L		100	75 - 125
Antimony	2.0	U	25.0	22.24		ug/L		89	75 - 125
Arsenic	2.0	U	50.0	53.36		ug/L		107	75 - 125
Barium	85.1		50.0	143.2		ug/L		116	75 - 125
Beryllium	0.80	U ^	25.0	25.11		ug/L		100	75 - 125
Cadmium	2.0	U	25.0	25.93		ug/L		104	75 - 125
Calcium	42700		2500	48350	4	ug/L		225	75 - 125
Chromium	4.0	U	50.0	50.66		ug/L		101	75 - 125
Cobalt	4.0	U	25.0	25.76		ug/L		103	75 - 125
Copper	4.0	U	50.0	50.98		ug/L		102	75 - 125
Iron	120	U	2500	2544		ug/L		102	75 - 125
Lead	1.2	U	25.0	25.91		ug/L		104	75 - 125
Magnesium	15300		2500	18750	4	ug/L		138	75 - 125
Manganese	212		250	476.7		ug/L		106	75 - 125
Nickel	2.7	J	50.0	53.10		ug/L		101	75 - 125
Potassium	9780		2500	12920	N	ug/L		126	75 - 125
Selenium	2.5	U	50.0	50.32		ug/L		101	75 - 125
Silver	2.0	U	25.0	22.97		ug/L		92	75 - 125
Sodium	74000		2500	79780	4	ug/L		232	75 - 125
Thallium	0.80	U	20.0	20.72		ug/L		104	75 - 125
Vanadium	4.0	U	50.0	51.96		ug/L		104	75 - 125
Zinc	16.0	U	250	254.9		ug/L		102	75 - 125

Lab Sample ID: 460-266466-F-1-B DU
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	40.0	U	40.0	U	ug/L		NC	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	85.1		89.78		ug/L		5	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	42700		44620		ug/L		4	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	4.0	U	4.0	U	ug/L		NC	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	120	U	120	U	ug/L		NC	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Magnesium	15300		15890		ug/L		4	20
Manganese	212		216.6		ug/L		2	20
Nickel	2.7	J	2.90	J	ug/L		7	20
Potassium	9780		10260		ug/L		5	20
Selenium	2.5	U	2.5	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	74000		77550		ug/L		5	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 460-266466-F-1-B DU
Matrix: Water
Analysis Batch: 871269

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	0.80	U	0.80	U	ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-870234/1-A
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/05/22 10:46	10/05/22 13:43	1

Lab Sample ID: LCS 460-870234/2-A
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.08		ug/L		108	80 - 120

Lab Sample ID: 460-266745-J-5-C MS
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	0.974		ug/L		97	75 - 125

Lab Sample ID: 460-266745-J-5-D MSD
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.06		ug/L		106	75 - 125	9	20

Lab Sample ID: 460-266745-J-5-B DU
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-870669/1-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 11:23	10/07/22 14:10	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 460-870669/2-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.03		ug/L		103	80 - 120

Lab Sample ID: 460-266440-F-6-B MS
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.08		ug/L		108	75 - 125

Lab Sample ID: 460-266440-G-6-F MSD
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.02		ug/L		102	75 - 125	6	20

Lab Sample ID: 460-266440-G-6-E DU
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-870683/1-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 14:59	1

Lab Sample ID: LCS 460-870683/3-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.12		ug/L		112	80 - 120

Lab Sample ID: MB 460-871270/1-A
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/11/22 11:10	10/11/22 14:24	1

Lab Sample ID: LCS 460-871270/2-A
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.10		ug/L		110	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 460-266968-D-3-G MS
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.14		ug/L		114	75 - 125

Lab Sample ID: 460-266968-D-3-H MSD
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.07		ug/L		107	75 - 125	7	20

Lab Sample ID: 460-266968-D-3-F DU
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: LCS 460-871301/3-A
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: 460-266440-E-6-G MS
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 870683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.07		ug/L		107	75 - 125

Lab Sample ID: 460-266440-E-6-H MSD
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 870683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.06		ug/L		106	75 - 125	0	20

Lab Sample ID: 460-266440-E-6-F DU
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 870683

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-871296/1-B
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 871301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/11/22 14:45	10/11/22 15:17	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 460-266972-D-1-F MS
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 871301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.02		ug/L		102	75 - 125

Lab Sample ID: 460-266972-D-1-E DU
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 871301

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

GC/MS VOA

Analysis Batch: 870628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8260D	
460-266752-10	TB_20221003	Total/NA	Water	8260D	
460-266826-5	TW-03_20221004	Total/NA	Water	8260D	
460-266826-6	TW-04_20221004	Total/NA	Water	8260D	
MB 460-870628/7	Method Blank	Total/NA	Water	8260D	
LCS 460-870628/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-870628/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 870989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8260D	
MB 460-870989/8	Method Blank	Total/NA	Water	8260D	
LCS 460-870989/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-870989/18	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 870235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3510C	
460-266752-9 - DL	TW-02_20221003	Total/NA	Water	3510C	
MB 460-870235/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870235/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870235/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 870337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8270E	870235
460-266752-9 - DL	TW-02_20221003	Total/NA	Water	8270E	870235
MB 460-870235/1-A	Method Blank	Total/NA	Water	8270E	870235
LCS 460-870235/2-A	Lab Control Sample	Total/NA	Water	8270E	870235
LCSD 460-870235/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	870235

Filtration Batch: 870439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-870439/1-B	Method Blank	Total/NA	Water	FILTRATION	

Prep Batch: 870445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Total/NA	Water	3510C	
460-266826-6	TW-04_20221004	Total/NA	Water	3510C	
MB 460-870439/1-B	Method Blank	Total/NA	Water	3510C	870439
MB 460-870445/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870445/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870445/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 870554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8270E	870657
MB 460-870657/1-A	Method Blank	Total/NA	Water	8270E	870657
LCS 460-870657/2-A	Lab Control Sample	Total/NA	Water	8270E	870657

GC/MS Semi VOA (Continued)

Analysis Batch: 870554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-870657/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	870657

Analysis Batch: 870558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Total/NA	Water	8270E	870445
460-266826-6	TW-04_20221004	Total/NA	Water	8270E	870445
MB 460-870439/1-B	Method Blank	Total/NA	Water	8270E	870445
MB 460-870445/1-A	Method Blank	Total/NA	Water	8270E	870445
LCS 460-870445/2-A	Lab Control Sample	Total/NA	Water	8270E	870445
LCSD 460-870445/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	870445

Prep Batch: 870657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	3510C	
MB 460-870657/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870657/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870657/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Prep Batch: 870353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3510C	
460-266826-5	TW-03_20221004	Total/NA	Water	3510C	
460-266826-6	TW-04_20221004	Total/NA	Water	3510C	
MB 460-870353/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870353/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870353/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 870354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3510C	
460-266826-5	TW-03_20221004	Total/NA	Water	3510C	
460-266826-6	TW-04_20221004	Total/NA	Water	3510C	
MB 460-870354/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870354/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870354/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 870370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8081B	870354
460-266826-5	TW-03_20221004	Total/NA	Water	8081B	870354
460-266826-6	TW-04_20221004	Total/NA	Water	8081B	870354
MB 460-870354/1-A	Method Blank	Total/NA	Water	8081B	870354
LCS 460-870354/2-A	Lab Control Sample	Total/NA	Water	8081B	870354
LCSD 460-870354/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	870354

Analysis Batch: 870405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8082A	870353
460-266826-5	TW-03_20221004	Total/NA	Water	8082A	870353

GC Semi VOA (Continued)

Analysis Batch: 870405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-6	TW-04_20221004	Total/NA	Water	8082A	870353
MB 460-870353/1-A	Method Blank	Total/NA	Water	8082A	870353
LCS 460-870353/2-A	Lab Control Sample	Total/NA	Water	8082A	870353
LCSD 460-870353/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	870353

Prep Batch: 870664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	3510C	
MB 460-870664/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870664/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870664/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 870667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	3510C	
MB 460-870667/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870667/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870667/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-266842-J-4-B MS	Matrix Spike	Total/NA	Water	3510C	
460-266842-J-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 871010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8081B	870667
MB 460-870667/1-A	Method Blank	Total/NA	Water	8081B	870667
LCS 460-870667/2-A	Lab Control Sample	Total/NA	Water	8081B	870667
LCSD 460-870667/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	870667
460-266842-J-4-B MS	Matrix Spike	Total/NA	Water	8081B	870667
460-266842-J-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	8081B	870667

Analysis Batch: 871037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8082A	870664
MB 460-870664/1-A	Method Blank	Total/NA	Water	8082A	870664
LCS 460-870664/2-A	Lab Control Sample	Total/NA	Water	8082A	870664
LCSD 460-870664/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	870664

Metals

Prep Batch: 870234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	7470A	
MB 460-870234/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-870234/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-266745-J-5-C MS	Matrix Spike	Total/NA	Water	7470A	
460-266745-J-5-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-266745-J-5-B DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 870271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	6020B	870341

Metals (Continued)

Analysis Batch: 870271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	6020B	870341
MB 460-870341/1-A	Method Blank	Total/NA	Water	6020B	870341
MB 460-870341/1-A	Method Blank	Total/NA	Water	6020B	870341
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	6020B	870341
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	6020B	870341
460-266752-9 MS	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 MS	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 DU	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 DU	TW-02_20221003	Dissolved	Water	6020B	870341

Analysis Batch: 870295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	7470A	870234
MB 460-870234/1-A	Method Blank	Total/NA	Water	7470A	870234
LCS 460-870234/2-A	Lab Control Sample	Total/NA	Water	7470A	870234
460-266745-J-5-C MS	Matrix Spike	Total/NA	Water	7470A	870234
460-266745-J-5-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	870234
460-266745-J-5-B DU	Duplicate	Total/NA	Water	7470A	870234

Prep Batch: 870341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	3010A	
MB 460-870341/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-266752-9 MS	TW-02_20221003	Dissolved	Water	3010A	
460-266752-9 DU	TW-02_20221003	Dissolved	Water	3010A	

Analysis Batch: 870468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	6020B	870341
MB 460-870341/1-A	Method Blank	Total/NA	Water	6020B	870341
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	6020B	870341
460-266752-9 MS	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 DU	TW-02_20221003	Dissolved	Water	6020B	870341

Prep Batch: 870563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3010A	
460-266826-5	TW-03_20221004	Total/NA	Water	3010A	
460-266826-6	TW-04_20221004	Total/NA	Water	3010A	
460-266877-3	TW-01_20221005	Total/NA	Water	3010A	
MB 460-870563/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-870563/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-266887-F-8-C MS	Matrix Spike	Total/NA	Water	3010A	
460-266887-F-8-B DU	Duplicate	Total/NA	Water	3010A	

Prep Batch: 870669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Total/NA	Water	7470A	
460-266826-6	TW-04_20221004	Total/NA	Water	7470A	
MB 460-870669/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 870669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-870669/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-266440-F-6-B MS	Matrix Spike	Total/NA	Water	7470A	
460-266440-G-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-266440-G-6-E DU	Duplicate	Total/NA	Water	7470A	

Filtration Batch: 870682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266440-E-6-G MS	Matrix Spike	Dissolved	Water	FILTRATION	
460-266440-E-6-H MSD	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	
460-266440-E-6-F DU	Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 870683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	7470A	
460-266826-5	TW-03_20221004	Dissolved	Water	7470A	
460-266826-6	TW-04_20221004	Dissolved	Water	7470A	
MB 460-870683/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-870683/3-A	Lab Control Sample	Total/NA	Water	7470A	
460-266440-E-6-G MS	Matrix Spike	Dissolved	Water	7470A	870682
460-266440-E-6-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	870682
460-266440-E-6-F DU	Duplicate	Dissolved	Water	7470A	870682

Analysis Batch: 870709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	7470A	870683
460-266826-5	TW-03_20221004	Dissolved	Water	7470A	870683
460-266826-5	TW-03_20221004	Total/NA	Water	7470A	870669
460-266826-6	TW-04_20221004	Dissolved	Water	7470A	870683
460-266826-6	TW-04_20221004	Total/NA	Water	7470A	870669
MB 460-870669/1-A	Method Blank	Total/NA	Water	7470A	870669
MB 460-870683/1-A	Method Blank	Total/NA	Water	7470A	870683
LCS 460-870669/2-A	Lab Control Sample	Total/NA	Water	7470A	870669
LCS 460-870683/3-A	Lab Control Sample	Total/NA	Water	7470A	870683
460-266440-E-6-G MS	Matrix Spike	Dissolved	Water	7470A	870683
460-266440-E-6-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	870683
460-266440-F-6-B MS	Matrix Spike	Total/NA	Water	7470A	870669
460-266440-G-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	870669
460-266440-E-6-F DU	Duplicate	Dissolved	Water	7470A	870683
460-266440-G-6-E DU	Duplicate	Total/NA	Water	7470A	870669

Analysis Batch: 870930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	6020B	870563
460-266826-5	TW-03_20221004	Total/NA	Water	6020B	870563
460-266826-6	TW-04_20221004	Total/NA	Water	6020B	870563
460-266877-3	TW-01_20221005	Total/NA	Water	6020B	870563
460-266877-3	TW-01_20221005	Total/NA	Water	6020B	870563
MB 460-870563/1-A	Method Blank	Total/NA	Water	6020B	870563
LCS 460-870563/2-A	Lab Control Sample	Total/NA	Water	6020B	870563
460-266887-F-8-C MS	Matrix Spike	Total/NA	Water	6020B	870563
460-266887-F-8-B DU	Duplicate	Total/NA	Water	6020B	870563

Metals

Analysis Batch: 871052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Dissolved	Water	6020B	871155
460-266826-6	TW-04_20221004	Dissolved	Water	6020B	871155
460-266877-3	TW-01_20221005	Dissolved	Water	6020B	871155
MB 460-871155/19-A	Method Blank	Total/NA	Water	6020B	871155
LCS 460-871155/20-A	Lab Control Sample	Total/NA	Water	6020B	871155
460-266466-F-1-C MS	Matrix Spike	Dissolved	Water	6020B	871155
460-266466-F-1-B DU	Duplicate	Dissolved	Water	6020B	871155

Filtration Batch: 871154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	FILTRATION	

Prep Batch: 871155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Dissolved	Water	3010A	
460-266826-6	TW-04_20221004	Dissolved	Water	3010A	
460-266877-3	TW-01_20221005	Dissolved	Water	3010A	871154
MB 460-871155/19-A	Method Blank	Total/NA	Water	3010A	
LCS 460-871155/20-A	Lab Control Sample	Total/NA	Water	3010A	
460-266466-F-1-C MS	Matrix Spike	Dissolved	Water	3010A	
460-266466-F-1-B DU	Duplicate	Dissolved	Water	3010A	

Analysis Batch: 871269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Dissolved	Water	6020B	871155
460-266826-6	TW-04_20221004	Dissolved	Water	6020B	871155
MB 460-871155/19-A	Method Blank	Total/NA	Water	6020B	871155
LCS 460-871155/20-A	Lab Control Sample	Total/NA	Water	6020B	871155
460-266466-F-1-B DU	Duplicate	Dissolved	Water	6020B	871155

Prep Batch: 871270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	7470A	
MB 460-871270/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-871270/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-266968-D-3-G MS	Matrix Spike	Total/NA	Water	7470A	
460-266968-D-3-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-266968-D-3-F DU	Duplicate	Total/NA	Water	7470A	

Filtration Batch: 871296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	FILTRATION	
MB 460-871296/1-B	Method Blank	Dissolved	Water	FILTRATION	
460-266972-D-1-F MS	Matrix Spike	Dissolved	Water	FILTRATION	
460-266972-D-1-E DU	Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 871301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	7470A	871296
MB 460-871296/1-B	Method Blank	Dissolved	Water	7470A	871296
LCS 460-871301/3-A	Lab Control Sample	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 871301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266972-D-1-F MS	Matrix Spike	Dissolved	Water	7470A	871296
460-266972-D-1-E DU	Duplicate	Dissolved	Water	7470A	871296

Analysis Batch: 871337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	7470A	871301
460-266877-3	TW-01_20221005	Total/NA	Water	7470A	871270
MB 460-871270/1-A	Method Blank	Total/NA	Water	7470A	871270
MB 460-871296/1-B	Method Blank	Dissolved	Water	7470A	871301
LCS 460-871270/2-A	Lab Control Sample	Total/NA	Water	7470A	871270
LCS 460-871301/3-A	Lab Control Sample	Total/NA	Water	7470A	871301
460-266968-D-3-G MS	Matrix Spike	Total/NA	Water	7470A	871270
460-266968-D-3-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	871270
460-266972-D-1-F MS	Matrix Spike	Dissolved	Water	7470A	871301
460-266968-D-3-F DU	Duplicate	Total/NA	Water	7470A	871270
460-266972-D-1-E DU	Duplicate	Dissolved	Water	7470A	871301

Analysis Batch: 871758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266466-F-1-C MS	Matrix Spike	Dissolved	Water	6020B	871155

Client Sample ID: TW-02_20221003
Lab Sample ID: 460-266752-9
Date Collected: 10/03/22 11:30
Matrix: Water
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 15:12
Total/NA	Prep	3510C			870235	ZEH	EET EDI	10/05/22 10:48
Total/NA	Analysis	8270E		1	870337	MME	EET EDI	10/06/22 05:09
Total/NA	Prep	3510C	DL		870235	ZEH	EET EDI	10/05/22 10:48
Total/NA	Analysis	8270E	DL	5	870337	MME	EET EDI	10/06/22 07:37
Total/NA	Prep	3510C			870354	JMS	EET EDI	10/05/22 23:06
Total/NA	Analysis	8081B		1	870370	FAM	EET EDI	10/06/22 07:27
Total/NA	Prep	3510C			870353	JMS	EET EDI	10/05/22 22:53
Total/NA	Analysis	8082A		1	870405	JHP	EET EDI	10/06/22 11:30
Dissolved	Prep	3010A			870341	VAD	EET EDI	10/05/22 21:01
Dissolved	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 23:30
Dissolved	Prep	3010A			870341	VAD	EET EDI	10/05/22 21:01
Dissolved	Analysis	6020B		1	870271	YZH	EET EDI	10/06/22 01:45
Dissolved	Prep	3010A			870341	VAD	EET EDI	10/05/22 21:01
Dissolved	Analysis	6020B		1	870468	MDC	EET EDI	10/06/22 20:55
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:29
Dissolved	Prep	7470A			870683	RBS	EET EDI	10/07/22 14:18
Dissolved	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 15:41
Total/NA	Prep	7470A			870234	RBS	EET EDI	10/05/22 10:46
Total/NA	Analysis	7470A		1	870295	RBS	EET EDI	10/05/22 14:07

Client Sample ID: TB_20221003
Lab Sample ID: 460-266752-10
Date Collected: 10/03/22 14:30
Matrix: Water
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 15:33

Client Sample ID: TW-03_20221004
Lab Sample ID: 460-266826-5
Date Collected: 10/04/22 00:00
Matrix: Water
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 15:54
Total/NA	Prep	3510C			870445	NMP	EET EDI	10/06/22 10:27
Total/NA	Analysis	8270E		1	870558	MME	EET EDI	10/07/22 03:03
Total/NA	Prep	3510C			870354	JMS	EET EDI	10/05/22 23:06
Total/NA	Analysis	8081B		1	870370	FAM	EET EDI	10/06/22 06:55
Total/NA	Prep	3510C			870353	JMS	EET EDI	10/05/22 22:53
Total/NA	Analysis	8082A		1	870405	JHP	EET EDI	10/06/22 10:57
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 22:33
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871269	MDC	EET EDI	10/11/22 20:10

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Client Sample ID: TW-03_20221004
Lab Sample ID: 460-266826-5
Date Collected: 10/04/22 00:00
Matrix: Water
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:32
Dissolved	Prep	7470A			870683	RBS	EET EDI	10/07/22 14:18
Dissolved	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 15:42
Total/NA	Prep	7470A			870669	RBS	EET EDI	10/07/22 11:23
Total/NA	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 14:25

Client Sample ID: TW-04_20221004
Lab Sample ID: 460-266826-6
Date Collected: 10/04/22 00:00
Matrix: Water
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 16:16
Total/NA	Prep	3510C			870445	NMP	EET EDI	10/06/22 10:27
Total/NA	Analysis	8270E		1	870558	MME	EET EDI	10/07/22 03:24
Total/NA	Prep	3510C			870354	JMS	EET EDI	10/05/22 23:06
Total/NA	Analysis	8081B		1	870370	FAM	EET EDI	10/06/22 07:11
Total/NA	Prep	3510C			870353	JMS	EET EDI	10/05/22 22:53
Total/NA	Analysis	8082A		1	870405	JHP	EET EDI	10/06/22 11:14
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 22:35
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871269	MDC	EET EDI	10/11/22 20:13
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:34
Dissolved	Prep	7470A			870683	RBS	EET EDI	10/07/22 14:18
Dissolved	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 15:44
Total/NA	Prep	7470A			870669	RBS	EET EDI	10/07/22 11:23
Total/NA	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 14:30

Client Sample ID: TW-01_20221005
Lab Sample ID: 460-266877-3
Date Collected: 10/05/22 10:30
Matrix: Water
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870989	SZD	EET EDI	10/10/22 11:01
Total/NA	Prep	3510C			870657	NMP	EET EDI	10/07/22 10:38
Total/NA	Analysis	8270E		1	870554	YAH	EET EDI	10/08/22 07:05
Total/NA	Prep	3510C			870667	OTS	EET EDI	10/07/22 11:20
Total/NA	Analysis	8081B		1	871010	JHP	EET EDI	10/10/22 12:11
Total/NA	Prep	3510C			870664	OTS	EET EDI	10/07/22 11:11
Total/NA	Analysis	8082A		1	871037	JHP	EET EDI	10/10/22 11:40
Dissolved	Filtration	FILTRATION			871154	VAD	EET EDI	10/10/22 20:26
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 23:21

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Client Sample ID: TW-01_20221005
Lab Sample ID: 460-266877-3

Date Collected: 10/05/22 10:30
Matrix: Water
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:37
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		5	870930	MDC	EET EDI	10/09/22 14:44
Dissolved	Filtration	FILTRATION			871296	RBS	EET EDI	10/11/22 14:30
Dissolved	Prep	7470A			871301	RBS	EET EDI	10/11/22 14:45
Dissolved	Analysis	7470A		1	871337	RBS	EET EDI	10/11/22 15:31
Total/NA	Prep	7470A			871270	RBS	EET EDI	10/11/22 11:10
Total/NA	Analysis	7470A		1	871337	RBS	EET EDI	10/11/22 14:36

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Laboratory: Eurofins Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270E	3510C	Water	3 & 4 Methylphenol

Method Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
FILTRATION	Sample Filtration	None	EET EDI

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-266752-9	TW-02_20221003	Water	10/03/22 11:30	10/03/22 19:00
460-266752-10	TB_20221003	Water	10/03/22 14:30	10/03/22 19:00
460-266826-5	TW-03_20221004	Water	10/04/22 00:00	10/04/22 18:30
460-266826-6	TW-04_20221004	Water	10/04/22 00:00	10/04/22 18:30
460-266877-3	TW-01_20221005	Water	10/05/22 10:30	10/05/22 18:00

Chain of Custody Record

611419

eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

266877

TAL-8210

Client Contact	Project Manager: Alyssa Brzychkowski	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 1 of 2 COCs
Company Name: AKRF, Inc.	Tel/Email: abrzychkowski@akrf.com	Lab Contact: M. Thuss	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
City/State/Zip: New York, NY 10016	TAT if different from Below: Standard			Walk-in Client:
Phone: 646 388 9533	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Fax:				Job / SDG No.:
Project Name: IHOS				
Site: Astoria Queens, NY				
P O # 216134				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260-TCL/Add 2 TICs, VOCs	8270A - SVOCs	7471B - mercury	6010B - TAL metals	8082B - TCL/Add 2 PCBs	8270E - TCL/Add 2 SVOCs/Bonus +1,4-Dioxane	7196A - Hex Chrom 3150	Sample Specific Notes:
SB-01_0-2_20221005	10/5/22	0810	G	S	6	N	N	X	X	X	X	X	X	X	1
SB-01_31-33_20221005	↓	0815	G	S	6	N	N	X	X	X	X	X	X	X	2

SHORT HOLD

2 2 2 2

460-266877 Chain of Custody

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Category A Deliverable - EQuIS EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1	Tom Gordon	AKRF, Inc	10/5/2022		FedEx	10/6/22 1145
2	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
		FedEx	10/6/1600		FedEx	10/7/22 1200
3	Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
		NA	10/7/22 1800		TAL	10/8/22 1800

266877 EC 232

10/14/2022

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Chain of Custody Record

611418

eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

266817

TAL-8210

Client Contact	Project Manager: Asya Rychkov	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 8 of 2 COCs
Company Name: AKRF Inc.	Tel/Email: arychkov@akrf.com	Lab Contact: M-Hua	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: New York, NY 10016	☐ CALENDAR DAYS ☒ WORKING DAYS			Walk-in Client:
Phone: 646-388-9533	TAT if different from Below: Standard			Lab Sampling:
Fax:	☐ 2 weeks			Job / SDG No.:
Project Name: Illos	☒ 1 week			
Site: Astoria, Queens, NY	☐ 2 days			
P O # 210124	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8081B - TCL/Nat 375 Pest	8260B - TCL/Nat 375 ONLY	8270E - TCL/Nat 375 ONLY + 1,4-Dioxane	Geo 2013 - TAL Metals	7470A - Mercury	Geo 2013 - Dissolved TAL EE	7470A - Dissolved mercury EE	8260D - TCL/Nat 375 VOC	Sample Specific Notes:
TW-01_GW22Low	10/5/22	1030	G	GW	11	Y	N	X	X	X	X	X	X	X	X	3

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Category A Deliverables / EQUIS EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1	Tom Gordon	AKRF Inc	10/5/22			
2			1945/22			10/6/22 1045 1320
3			1052 1800	Received in Laboratory by:	Company:	Date/Time: 10/6/22 1800

26 2RQ 26 2209

10/14/2022

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Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 266877

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.6 °C	2.6 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
3				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ Date: 10/5/22

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-2

Login Number: 266752
List Number: 1
Creator: Narinkhum, Nudjarin 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-2

Login Number: 266826
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-2

Login Number: 266877
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

IKOS Senior Living
31-07 31st Street
QUEENS, NEW YORK

Remedial Investigation Report

OER Project Number: 24TMP1507Q

E-Designation: E-1001

Prepared For:

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JANUARY 2025

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Deborah Shapiro, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 31-07 31st Street Site, (NYC VCP Site No. site number). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The Remedial Investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 31-07 31st Street in the Astoria section of Queens, New York and is identified as Block 611 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 20,880-square feet and is bounded by commercial uses to the north, residential and institutional uses to the south, commercial uses, residential uses, and 32nd Street to the east, and 31st Street and an elevated subway station to the west. A map of the Site boundary is shown in Figure 2. Currently, the Site is used as a municipal, asphalt-paved parking lot and is not developed with any permanent structures.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of the construction of two new buildings: a 13-story mixed-use building with approximately 167 affordable senior residential units and partial cellar level is proposed along 31st Street, and a three-story community facility building with slab-on-grade is proposed on 32nd Street. The two buildings will be connected through a one-story community room. Excavation will be required to approximately 12 feet below grade for the cellar level, to approximately 6 feet below grade for the crawl space, and to approximately 2 feet below grade for the slab-on-grade portion and outside the building footprint. Layout of the proposed site development is presented in Figure 2. The Site will be rezoned from a R5 with a C1-2 overlay to a C4-5 district along 31st Street and from R5 to C4-2A along 32nd Street.

Summary of Past Uses of Site and Areas of Concern

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Site, specifically Sanborn Fire Insurance Maps in multiple years between 1898 and 2006. In 1898 and 1915, the Site was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Site. In 1936, the Site remained mostly unchanged except for the addition of a one-car garage to the east of the previously identified dwelling. The Site continued as unchanged until 1979-1896, when the identified dwelling was no longer depicted on the Site, while the one-car garage remained. The western portion of the Site was now identified as parking. In 1988-1989 the Site was developed in its current configuration, as the one-car garage was no longer identified on the Site, and the entirety of the Site was labeled as parking.

The following environmental issues are considered Areas of Concern (AOCs) for the Site:

1. Elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) exceeding the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) in soil. The samples exhibiting the highest concentrations were generally encountered in the northeastern portion of the Site.
2. Elevated concentrations of chlorinated solvents in groundwater and soil vapor samples. The samples exhibiting the highest concentrations in groundwater were generally encountered in the central portions of the Site and the highest concentration in soil vapor was detected in the southern portion of the Site.

Summary of the Work Performed under the Remedial Investigation

On behalf of Ikos Senior Living LLC, AKRF performed the following scope of work in general accordance with the OER-approved Phase II Work Plan, dated November 2024:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed nine soil borings across the Site, and collected 23 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes and collected three soil vapor samples for chemical analysis.

Summary of Environmental Findings

1. Based on the U.S. Geological Survey, Central Park, New York 2013 Quadrangle map, the Site lies at approximately 50 feet above mean sea level, with the general surrounding area topography gently sloping down in a westerly direction towards the East River. Based on an architectural survey dated September 2021, elevation of the property ranges from 49 to 57 feet above mean sea level.
2. The depth to groundwater was measured using a Solinst® oil/water interface probe. Depth to groundwater beneath the Site ranged from approximately 31.40 feet below grade in the eastern portion of the Site at temporary well TW-08 to 35.06 feet below grade in the southwestern portion of the Site at temporary well TW-10.
3. Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in this portion of Queens is not used as a source of potable water.
4. Based on USGS mapping, bedrock is expected at approximately 50 to 60 feet below grade in this area of Queens.
5. The stratigraphy of the Site consists of fill (consisting of brown sand, silt, and gravel, with varying amounts of brick, asphalt, and concrete) down to approximately 3 to 11 feet below grade, underlain by apparent native sand with trace to little amounts of gravel to the boring terminus.
6. Twenty-three soil samples were collected for laboratory analysis during this investigation. The analytical results for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides and metals were compared to the NYSDEC UUSCOs and RRSCOs. One sample (SB-08_0-2_20241213) was also analyzed for PFAS, and the analytical results were compared to the Unrestricted Use Guidance Values (UUGVs) and the Restricted Residential Guidance Values (RRGVs) as outlined in NYSDEC's *Sampling, Analysis and Assessment of PFAS* guidance dated April 2023. The results are summarized below:
    - VOCs were detected at concentrations up to 0.087 milligrams per kilogram (mg/kg), below the UUSCOs and RRSCOs.
    - Six SVOCs [benzo(a)anthracene (max. 2.8 mg/kg), benzo(a)pyrene (max. 2.7 mg/kg), benzo(b)fluoranthene (max. 3.8 mg/kg), benzo(k)fluoranthene (max. 1.4 mg/kg), chrysene (max. 2.8 mg/kg), and indeno(1,2,3-c,d)pyrene (max. 1.4 mg/kg)] were detected above the UUSCOs and/or RRSCOs in five soil samples.

- The following four metals were detected above their respective UUSCOs in one or more of the soil samples: copper (max. 62.3 mg/kg), lead (max. 379 mg/kg), mercury (max. 0.27 mg/kg), and zinc (max. 173 mg/kg). No metals were detected above the RRSCOs.
- PCBs were not detected above laboratory reporting limits in any of the soil samples analyzed during the investigation.
- The pesticides P,P'-DDE and P,P'-DDT were detected in one sample at concentrations of 0.004 mg/kg and 0.008 mg/kg, respectively, above the UUSCO of 0.0033 mg/kg, but below their respective RRSCOs.
- Perfluorooctanesulfonic acid (PFOS) was detected in the soil sample analyzed (SB-08_0-2_20241213) at a concentration of 2.17 parts per billion (ppb), above the UUSCO guidance value of 0.88 ppb, but below the RRSCO guidance value of 44 ppb. Perfluorooctanoic acid (PFOA) and 1,4-dioxane were not detected above laboratory reporting limits.

7. Three groundwater samples were collected during the RI for laboratory analysis from the three temporary monitoring wells (TW-08 through TW-10). Groundwater sample analytical results for VOCs, SVOCs, PCBs, pesticides, metals (total and dissolved), and 1,4-dioxane were compared to the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs), which were developed based on use as a source of drinking water, although groundwater in this portion of Queens is not used as a source of potable water. The results are summarized below:
    - Six VOCs [bromodichloromethane, chloroform, cis-1,2-dichloroethylene, dibromochloromethane, tetrachloroethylene (PCE), and trichloroethylene (TCE)] were detected in one or more groundwater samples at concentrations ranging from 0.34 micrograms per liter (µg/L) of bromodichloromethane to 310 µg/L of PCE. PCE was detected in all three groundwater samples at concentrations ranging from 60 to 310 µg/L, above the AWQSGV of 5 µg/L.
    - Three SVOCs, 1,4-dioxane, caprolactam, and di-n-butyl phthalate, were detected in one or more of the groundwater samples at concentrations up to 21 µg/L, below their respective AWQSGVs.
    - The following 14 metals were detected above the AWQSGVs in one or more of the total (unfiltered) samples: arsenic (max. 73.3 µg/L), barium (max. 4,580 µg/L), beryllium (max. 14 µg/L), total chromium (max. 1,350 µg/L), copper (max. 1,000 µg/L), iron (max. 667,000 µg/L), lead (max. 707 µg/L), magnesium (max. 370,000 µg/L), manganese (max. 18,400 µg/L), mercury (max. 1.1 µg/L), nickel (max. 814 µg/L), sodium (max. 123,000 µg/L), thallium (max. 1.6 µg/L), and zinc (max. 2,040 µg/L). Manganese and sodium were also detected above the AWQSGVs in the dissolved (filtered) groundwater samples.
    - No PCBs or pesticides were detected above laboratory reporting limits in any of the groundwater samples.
    - 1,4-Dioxane was detected in two groundwater samples at concentrations up to 0.13 µg/L, below the AWQSGV of 0.35 µg/L.
8. Three soil vapor samples were collected for laboratory analysis during the RI from the three temporary soil vapor points. Soil vapor samples were analyzed by EPA Method TO-15 for VOCs and results were compared to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion matrices dated October 2006 (updated May 2017 and February 2024). The results are as follows.
    - Petroleum-related VOCs were detected at concentrations ranging from 2.3 micrograms per cubic meter (µg/m^3) to 66 µg/m^3.

- Solvent-related VOCs were detected at concentrations ranging from 1.4 µg/m^3 to 25 µg/m^3.
- No compounds were detected above the NYSDOH Soil Vapor/Indoor Air Matrices requiring mitigation, regardless of indoor air concentration.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

The 31-07 31st Street Site has been assigned an E-Designation to investigate and remediate an approximately 0.48-acre site located in the Astoria section of Queens, New York. Residential use is proposed for the property. The Remedial Investigation (RI) work was performed between December 11 and 13, 2024 in accordance with the November 2024 Phase II Work Plan (Work Plan). This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 31-07 31st Street in the Astoria section of Queens, New York and is identified as Block 611 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 20,880-square feet and is bounded by commercial uses to the north, residential and institutional uses to the south, commercial uses, residential uses, and 32nd Street to the east, and 31st Street and an elevated subway station to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is used as a municipal, asphalt-paved parking lot and is not developed with any permanent structures.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of the construction of two new buildings: a 13-story residential building with approximately 167 affordable senior residential units and partial cellar level is proposed along 31st Street, and a three-story community facility building with full cellar level is proposed on 32nd Street. The two buildings will be connected through a one-story community room. Excavation will be required to approximately 12 feet below grade for the cellar level, to approximately 6 feet below grade for the crawl space, and to approximately 2 feet below grade for the slab-on-grade portion and outside the building footprint. Layout of the proposed site development is presented in Figure 2. The Site will be rezoned from R5 with a C1-2 overlay to a C4-5 district along 31st Street and from R5 to C4-2A along 32nd Street.

1.3 Description of Surrounding Property

The Site is abutted to the north by commercial/retail units, followed by Broadway; to the west by 31st Street and an elevated subway station, followed by commercial/retail and residential units; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by retail and commercial units; and to the east by residential units and 32nd Street. The greater surrounding area was primarily commercial/retail, residential, and transit uses.

One sensitive receptor is located within 500 feet of the Site: The Learning Experience daycare located at 31-57 31st Street is approximately 330 feet north-northeast of the Site.

Figure 3 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Site, specifically Sanborn Fire Insurance Maps in multiple years between 1898 and 2006. In 1898 and 1915, the Site was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Site. In 1936, the Site remained mostly unchanged except for the addition of a one-car garage to the east of the previously identified dwelling. The Site continued as unchanged until 1979-1896, when the identified dwelling was no longer depicted on the Site, while the one-car garage remained. The western portion of the Site was now identified as parking. In 1988-1989 the Site was developed in its current configuration, as the one-car garage was no longer identified on the Site, and the entirety of the Site was labeled as parking.

Sanborn maps identified primarily residential and commercial historical uses, adjacent to the Site and surrounding area. Some of the pertinent commercial listings between circa 1936 and 2006 included a filling station located north-northeast of the Site; a garage and auto repair shop with gasoline tanks located northwest of the Site; a dry cleaners located northeast of the Site; and a machine shop and warehouse located southwest of the Site.

2.2 Previous Investigations

Previous reports prepared for the Site are included in Appendix A and summarized below.

Phase I Environmental Site Assessment – 31-07 31st Street, Astoria, NY, AKRF, Inc., June 2021

AKRF prepared a Phase I Environmental Site Assessment (ESA) for the Site in June 2021 in accordance with the requirements of American Society for Testing and Materials (ASTM) Standard E1527-13 (the applicable standard at that time). At the time of AKRF's assessment, the Site was occupied by a municipal parking lot with no structures. The Phase I ESA included a review of current and historical Sanborn Fire Insurance maps; state and federal environmental regulatory databases; local records; and reconnaissance of the Site and its surroundings. Based on the findings of the Phase I ESA, the following Recognized Environmental Conditions (RECs) and De Minimus conditions were identified:

- One groundwater monitoring well was observed on the 31st Street sidewalk west-adjacent of the Site.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry-cleaning uses in the surrounding area.

AKRF identified the following Business Environmental Risks (BERs) outside the scope of ASTM E1527-13:

- Buried demolition debris from former on-site structures could contain asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), and/or underground storage tanks.
- Three five-gallon containers of orphan waste were located on the southeastern-most corner of the Site. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked.

Subsurface (Phase II) Investigation Report – 31-07 31st Street, Astoria, NY, AKRF, Inc., January 2024

AKRF conducted a Phase II investigation at the Site in October 2022 in accordance with a New York City Department of Environmental Protection (NYCDEP)-approved Phase II Work Plan, dated June 2022. Field activities included a geophysical survey, the advancement of seven soil borings, and the installation of four temporary wells and five soil vapor probes, with the collection of 14 soil samples, 4 groundwater samples, and 5 soil vapor samples for laboratory analysis. A summary of the findings is provided below:

- Fill material was encountered at depths ranging from just below surface grade down to approximately 5 to 14 feet below grade. The fill material was underlain by apparent native material consisting of sand and gravel. Groundwater, as measured from the temporary wells, was encountered between approximately 30.3 and 36.6 feet below grade. No field evidence of contamination was noted in the soil borings or groundwater samples.
- Two soil samples were collected from each boring and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and metals. The 14 soil samples were compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Use Soil Cleanup Objectives (RRSCOs). Acetone was detected above the UUSCO in two samples; no VOCs were detected above the RRSCOs. Seven SVOCs were detected above the UUSCOs and/or RRSCOs, including benzo(a)anthracene [max. 25 milligrams per kilogram (mg/kg)], benzo(a)pyrene (max. 23 mg/kg), benzo(b)fluoranthene (max. 29 mg/kg), benzo(k)fluoranthene (max. 7.6 mg/kg), chrysene (max. 23 mg/kg), dibenz(a,h)anthracene (max 2.7 mg/kg), and indeno(1,2,3-c-d)pyrene (max. 17 mg/kg). Four metals were detected in up to four samples above their UUSCOs, but below the RRSCOs, including copper (max. 63.1 mg/kg), lead (max. 283 mg/kg), mercury (max. 0.59 mg/kg), and zinc (max. 149 mg/kg). The pesticide P,P'-DDT was detected in sample SB-05_0-2_20221004 at a concentration of 0.0063 mg/kg above the UUSCO of 0.0033 mg/kg, but below the RRSCO.
- Four groundwater samples were collected from temporary wells TW-01 through TW-04 (installed in borings SB-01 through SB-04) and analyzed for VOCs, SVOCs, PCBs, pesticides, and metals (total and dissolved). Three VOCs [tetrachloroethylene (PCE) (max. 330 micrograms per liter (µg/L)], cis-1,2-dichloroethene (max. 14 µg/L), and chloroform (max. 9.2 µg/L)] were detected in at least one of the four samples above the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs). Six SVOCs, including benzo(a)anthracene (max. 2.1 µg/L), benzo(a)pyrene (max. 1.6 µg/L), benzo(b)fluoranthene (max. 2.2 µg/L), bis(2-ethylhexyl) phthalate (max. 6.2 µg/L), chrysene (max 2 µg/L), and indeno(1,2,3-c-d)pyrene (max. 1.6 µg/L), were detected in sample TW-01_20221005 at concentrations above the AWQSGVs. In the unfiltered (total) metals analysis, 14 metals were detected at concentrations above the AWQSGVs, including arsenic (max. 62.9 µg/L), barium (max. 3,540 µg/L), beryllium (max. 14.2 µg/L), chromium, total (max. 3,390 µg/L), copper (max. 1,340 µg/L), iron (max. 971,000 µg/L), lead (max. 857 µg/L), magnesium (max. 355,000 µg/L), manganese (max. 24,600 µg/L), mercury (max. 1.7 µg/L), nickel (max. 922 µg/L), sodium (max. 140,000 µg/L), thallium (max. 5.1 µg/L), and zinc (max. 2,640 µg/L). In the filtered (dissolved) metals analysis, four metals, including iron (max. 1,630 µg/L), magnesium (max. 45,900 µg/L), manganese (max. 450 µg/L), and sodium (max. 141,000 µg/L) were detected at concentrations above the AWQSGVs. No PCBs or pesticides were detected above laboratory reporting limits in the groundwater samples.

- Several solvent-related VOCs [including PCE (max 1,900 µg/L), trichloroethylene (TCE) (max. 45 µg/L), and cis-1,2-dichloroethylene (max. 200 µg/L)] were detected in the soil vapor samples. Petroleum-related VOCs benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) were detected in up to all five soil vapor samples at concentrations up to 29 µg/m^3 (toluene in SV-04_20221003).

2.3 Site Inspection

On December 12, 2024, Mr. Stephen Schmid and Mr. Jonas Peters of AKRF conducted a reconnaissance of the Site as part of the RI. The weather was rainy and approximately 56 °F, with generally good visibility. Some of the parking spaces were occupied by vehicles. As a result, surface conditions of the Site were not fully visible during inspection.

At the time of the inspection, the Site consisted of a municipal parking lot for short-term parking and was generally bounded by commercial/retail units to the north, residential/commercial units to the south, residential units and 32nd Street to the east, and 31st Street/an elevated subway station to the west.

The asphalt pavement of the lot was in fair condition, with some surficial cracking and patches observed. Several pole lights and traffic barriers were observed on Site. No other above-grade structures were observed on the Site. Three apparent storm drains were observed and were connected to the municipal sewer system. Utility manholes were observed along 31st Street and 32nd Street.

No pits, ponds, or lagoons exhibiting evidence (e.g., discolored water, distressed vegetation, obvious wastewater discharge) of holding liquids or sludge containing hazardous substances or petroleum products were observed on the Site.

2.4 Areas of Concern

The following environmental issues discussed in Section 2.2 are considered Areas of Concern (AOCs) for the Site:

1. Elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) exceeding the UUSCOs and RRSCOs in soil samples. The samples exhibiting the highest concentrations were generally encountered in the northeastern portion of the Site.
2. Elevated concentrations of chlorinated solvents in groundwater and soil vapor samples. The samples exhibiting the highest concentrations in groundwater were generally encountered in the central portions of the Site and the highest concentration in soil vapor was detected in the southern portion of the Site.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Deborah Shapiro.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and Occupational Safety and Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements. The work described in this RIR was also performed in accordance with a site-specific Health and Safety Plan (HASP).

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

On behalf of Ikos Senior Living LLC, AKRF performed the following scope of work in general accordance with the OER-approved Phase II Work Plan, dated November 2024:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed nine soil borings across the Site, and collected 23 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes and collected three soil vapor samples for chemical analysis.

4.1 Geophysical Investigation

On December 11, 2024, a geophysical survey was conducted by Coastal Environmental Solutions, Inc (Coastal) of Long Beach, New York across accessible areas of the Site, to clear the proposed soil boring locations for subsurface utilities and/or structures. The geophysical survey included electromagnetic (EM) and ground penetrating radar (GPR) methods. During the geophysical survey, multiple shallow electrical lines associated with on-site lighting and parking meters were located and marked with spray paint. Several manholes connected to the municipal sewer system were also identified. The geophysical investigation report is attached as Appendix B. In addition to the geophysical survey, Coastal, the drilling contractor, notified Dig Safely New York at least 3 days prior to the start of the intrusive investigation work.

4.2 Borings and Monitoring Wells

4.2.1 Drilling and Soil Logging

On December 11 through 13, 2024, Coastal advanced eight soil borings (SB-04, and SB-08 through SB-15). The borings were advanced continuously using a track-mounted Geoprobe® Direct Push Probe (DPP) drill rig at the locations shown on Figure 2.

The borings were advanced to enable collection of soil samples from the proposed excavation depths and delineate contamination identified during the previous Phase II investigation. Soil borings SB-04 and SB-13 through SB-15 were advanced to approximately 5 feet below grade (bg), soil boring SB-11 was advanced to approximately 10 feet bg, soil boring SB-12 was advanced to approximately 15 feet bg, and soil borings SB-08 through SB-10 were advanced to approximately 40 feet bg (approximately 5 to 7 feet below the groundwater interface) to facilitate installation of temporary wells and collection of groundwater samples. During sampling at each boring location, soil samples were collected in five-foot long, two-inch diameter, stainless steel macrocore piston rod samplers fitted with dedicated internal acetate liners. Each core was split lengthwise and field-screened by AKRF personnel for organic vapors using a photoionization detector (PID), which measures relative concentrations of VOCs. The PID was calibrated at the start of each workday with 100 parts per million (ppm) isobutylene gas and fresh air in accordance with the manufacturer's specifications. Soil cores were also screened for visual and olfactory impacts (e.g., staining, sheen, or odor) prior to the collection of environmental samples, and logged using the modified Burmeister Classification System. All field work activities were recorded in a field book and on soil boring logs.

Soil boring locations are shown on Figure 2. Boring logs are included in Appendix C.

4.2.2 Groundwater Monitoring Well Construction

Three temporary monitoring wells (TW-08 through TW-10) were installed by Coastal on December 12 and 13, 2024. Soil borings advanced at the Site were retrofitted with 1-inch-diameter temporary wells constructed of polyvinyl chloride (PVC). Each temporary well consisted of 10-feet of 0.020-slotted well screen which extended approximately 5 feet into the groundwater table and a solid riser to grade. The annular space between the well screen and borehole was backfilled with No.2 Morie sand.

The temporary monitoring wells were sampled using dedicated high-density polyethylene (HDPE) tubing and a submersible pump. The wells were purged of a minimum of three well volumes prior to sampling. Prior to collecting groundwater samples, the temporary monitoring wells were gauged with an oil/water interface probe prior to sampling to record depth to groundwater and depth to bottom readings (to 1/100 of a foot), and to confirm or deny the presence of any non-aqueous phase liquid (NAPL). The purged groundwater was field screened for evidence of contamination (i.e., elevated PID readings, odor, or sheen) and water quality parameters including temperature, dissolved oxygen, pH, turbidity, conductivity, and oxidation reduction potential were recorded using a YSI ProDSS multiparameter digital water quality meter. Sampling was conducted in accordance with NYSDEC *Draft DER-10 Technical Guidance for Site Investigation and Remediation,* dated May 2010, and *Sampling Guidelines and Protocols,* dated March 1991.

Temporary groundwater monitoring well locations are shown on Figure 2. Groundwater monitoring well construction logs are included in Appendix C and groundwater sampling logs are included in Appendix D.

4.2.3 Survey

At each soil boring, temporary well, and soil vapor point distances were recorded using a measuring wheel to determine the location in respect to fixed object reference points (the Site boundary or permanent on-site structures).

4.2.4 Water Level Measurement

Prior to the collection of groundwater samples, each temporary well was gauged with an oil/water interface probe attached to a measuring tape accurate to 0.01 feet, to measure depth to water and total well depth. During gauging activities, groundwater levels ranged from 31.40 to 35.06 feet bg. No evidence of non-aqueous phase liquid (NAPL) was detected in the temporary wells or on the purge water. Depth to water measurements are summarized in Table 1.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater, and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

4.3.1 Soil Sampling

During this investigation, 23 soil samples were collected for chemical analysis from the soil boring locations indicated on Figure 2. In accordance with the Work Plan, samples were collected from 0 to 2 feet at each boring location and a second sample was collected from the 2-foot interval at the bottom of the proposed excavation depth of either 4 feet, 6 feet, or 12 feet. A third sample was collected from select borings within the fill layer to delineate previously identified contamination.

All equipment was properly decontaminated between each sampling event and after each use to prevent the cross-contamination of samples. Non-disposable equipment was field decontaminated by scrubbing with a non-phosphate detergent (i.e., Alconox® or Simple Green®) and rinsing with distilled water prior to use at each sample location. Soil samples were placed in laboratory-supplied containers in ice-filled coolers and submitted to the laboratory via courier with appropriate chain-of-custody documentation. Soil samples were submitted to Eurofins Edison (Eurofins) of Edison, New Jersey, a New York State Department of Health (NYSDOH)-certified laboratory for analysis of Target Compound List (TCL) VOCs by U.S. Environmental Protection Agency (EPA) Method 8260, TCL SVOCs by EPA Method 8270, TCL pesticides by EPA Method 8081, PCBs by EPA Method 8082, and Target Analyte List (TAL) metals by EPA 6000/7000 series. One sample (SB-08_0-2_20241213) was additionally analyzed for the per- and polyfluoroalkyl substances (PFAS) by EPA Method 1633 and 1,4-dioxane by EPA Method 8270D. One aqueous trip blank was included with sample shipment for Quality Assurance/Quality Control (QA/QC) purposes and was analyzed for VOCs only.

Data on soil sample collection, including chemical analyses, dates of collection, and sample depths, are reported in Tables 3 through 8. Laboratory analytical methods are discussed in Section 4.3.4 below.

4.3.2 Groundwater Sampling

During this investigation, three groundwater samples were collected for chemical analysis from three temporary groundwater monitoring wells.

Groundwater samples were collected using a peristaltic pump and dedicated tubing. Groundwater samples were placed in laboratory-supplied containers in ice-filled coolers and submitted to Eurofins via courier with appropriate chain-of-custody documentation. Groundwater samples were analyzed for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, TCL pesticides by EPA Method 8081, PCBs by EPA Method 8082, per- and polyfluoroalkyl substances (PFAS) by EPA Method 1633, 1,4-dioxane by EPA Method 8270, and TAL metals by EPA 6000/7000 series. The groundwater analysis for metals were conducted on both filtered (total) and unfiltered (dissolved) samples. Filtering occurred in the field using dedicated 0.45 micron field filters. One aqueous trip blank was included with sample shipment for QA/QC purposes and was analyzed for VOCs only.

The groundwater sample jars for PFAS analysis were handed off to the lab courier; however, the cooler was lost during transit to the Eurofins Cleveland laboratory in Barberton, Ohio.

Data on groundwater sample collection, including chemical analyses and dates of collection, are reported in Tables 9 through 14. Laboratory analytical methods are discussed in Section 4.3.4 below.

4.3.3 Soil Vapor Sampling

Three soil vapor probes were installed at the locations shown on Figure 2 and three soil vapor samples were collected for chemical analysis. The soil vapor probes were installed using a track-mounted Geoprobe® DPP unit to advance a 0.75-inch-diameter hollow probe rod fitted with a 6-inch-long stainless steel screened implant. As specified in the Phase II Work Plan, the soil vapor points were set at the proposed excavation depths. Soil vapor points SV-06 and SV-07 were installed to approximately 2 feet bg and soil vapor point SV-11 was installed to approximately 6 feet bg.

At each location, a 6-inch long, 0.5-inch diameter stainless steel vapor screen implant was installed at the target depth, and dedicated Teflon™-lined tubing extending above grade was threaded into the drive point. The probe was then retracted approximately six inches to create a void. No. 2 Morie sand was used to fill the annular space around the vapor point to 6 to 12 inches above the screen. Hydrated bentonite was used to fill the remaining void around the sampling tubing to the ground surface.

Prior to sampling the soil vapor points, approximately three sampler volumes were purged using a Gilair Plus low flow sampling pump. During purging, an inverted bucket was placed over each sampling point and tubing and sealed with hydrated bentonite. Helium was introduced to saturate the atmosphere through a small hole in the bucket. Purged vapors were collected in dedicated 1-liter Tedlar® bags and field-screened with a portable helium detector to check for short-circuiting by ambient air (i.e., to verify the adequacy of the bentonite seal above the probe so that samples would be representative of soil vapor conditions). Helium concentrations less than the NYSDOH guideline of 10 percent were considered sufficient to verify the integrity of the seal. The Tedlar® bags were also screened for organic vapors using the PID. The flow rate did not exceed 0.2 liters per minute during purging. After purging, the tubing was connected to a laboratory-supplied batch-certified clean 1-liter SUMMA canister equipped with a flow regulator to collect a sample over approximately two hours. Immediately after opening the flow control valve, the initial SUMMA® canister vacuum (inches of mercury) was noted. After approximately two hours, the flow controller valve was closed, the final vacuum noted, and the canister placed in a shipping carton for delivery with appropriate chain-of-custody documentation to Eurofins, a NYSDOH ELAP-certified laboratory for analysis of VOCs be EPA Method TO-15. After sampling, the soil vapor points were removed, the boreholes were backfilled, and the surface was restored to pre-sampling conditions.

Soil vapor sample collection data is reported in Table 15. Soil vapor sampling logs are included in Appendix E.

Soil vapor sampling logs are included in Appendix E. Methodologies used for soil vapor assessment conform to the *NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006.*

4.3.4 Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance was directed by Carl Armbruster of Eurofins.
Chemical Analytical Laboratory	Chemical analytical laboratory used in the RI was Eurofins, a NYS ELAP-certified laboratory.

Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010 and 7471 (rev. 2007); • VOCs by EPA Method 8260 (rev. 2006); • SVOCs by EPA Method 8270 (rev. 2007); • Pesticides by EPA Method 8081 (rev. 2000); • PCBs by EPA Method 8082 (rev. 2000); • Per- and Polyfluroalkyl Substances (PFAS) by EPA Method 1633 and 1,4-dioxane by EPA Method 8270D Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); • 1,4-dioxane by EPA Method 8270D SIM Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

4.3.5 Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Table 3 through 8, 9 through 14, and 15, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix F.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

The Site is relatively level, with the topography of the general surrounding area gently sloping down in a westerly direction. Based on an architectural survey dated September 2021, elevation of the Site ranges from 49 to 57 feet above mean sea level.

5.1.1 Stratigraphy

The stratigraphy of the Site consists of fill material (consisting of brown sand, silt, and gravel, with varying amounts of brick, asphalt, and concrete) down to approximately 3 to 11 feet below grade, underlain by apparent native sand with trace to little amounts of gravel to the boring terminus. Bedrock was not encountered in any of the borings during this investigation.

5.1.2 Hydrogeology

The depth to groundwater was measured using a Solinst® oil/water interface probe. Depth to groundwater beneath the Site ranged from approximately 31.40 feet below grade in the eastern portion of the Site at temporary well TW-08 to 35.06 feet below grade in the southwestern portion of the Site at temporary well TW-10. Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River, approximately 1 mile west of the Site; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in this portion of Queens is not used as a source of potable water.

A summary of water level data for all temporary monitoring wells is included in Table 1. The average depth to groundwater is 33.04 and the range in depth is 31.4 to 35.06.

5.2 Soil Chemistry

Twenty-three soil samples were collected for laboratory analysis during the RI from soil borings SB-04, and SB-08 through SB-15. The analytical results for VOCs, SVOCs, PCBs, pesticides and metals were compared to the NYSDEC 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 UUSCOs and RRSCOs. One sample (SB-08_0-2_20241213) was also analyzed for PFAS, and the analytical results were compared to the Unrestricted Use Guidance Values (UUGVs) and the Restricted Residential Guidance Values (RRGVs) as outlined in NYSDEC's *Sampling, Analysis and Assessment of PFAS* guidance dated April 2023. One aqueous trip blank was included with the sample shipment for QA/QC purposes and was analyzed for VOCs only. Soil sample analytical results are presented in Tables 3 through 8. Figure 4 shows the location and posts the values for soil/fill that exceed the NYSDEC UUSCOs, RRSCOs, and PFAS guidance values. The complete soil laboratory analytical data reports from the RI are included in Appendix F.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 2.

Volatile Organic Compounds (VOCs)

The VOCs acetone, methyl ethyl ketone, methylene chloride, PCE, and toluene were detected in up to 19 of the 23 soil samples analyzed during the RI at concentrations up to 0.087 mg/kg. No VOCs were detected above their respective UUSCOs or RRSCOs.

Soil analytical results for VOCs are presented in Table 3.

Semi-volatile Organic Compounds (SVOCs)

SVOCs were detected in each of the 23 soil samples analyzed during the investigation at concentrations up to 5.1 mg/kg. Six SVOCs [benzo(a)anthracene (max. 2.8 mg/kg), benzo(a)pyrene (max. 2.7 mg/kg), benzo(b)fluoranthene (max. 3.8 mg/kg), benzo(k)fluoranthene (max. 1.4 mg/kg), chrysene (max. 2.8 mg/kg), and indeno(1,2,3-c,d)pyrene (max. 1.4 mg/kg)] were detected above the UUSCOs in one or more of the following samples: SB-11_2-4_20241212, SB-13_0-2_20241211, SB-14_0-2_2024121, SB-14_2-4_20241211, and SB-15_2-4_20241211.

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-c,d)pyrene were additionally detected above the RRSCOs in samples SB-13_0-2_20241211, SB-14_0-2_20241211, SB-14_2-4_20241211, and SB-15_2-4_20241211. Benzo(b)fluoranthene was also detected above the RRSCO in sample SB-11_2-4_20241212.

The SVOCs that exceeded their respective UUSCOs and/or RRSCOs are polycyclic aromatic hydrocarbons (PAHs), a class of compounds found in some petroleum products, coal tar, coal ash, and other combustion products commonly found in historic fill. Therefore, the detected PAH concentrations in the soil samples can be generally attributed to historic fill material in the soil borings.

Soil analytical results for SVOCs are presented in Table 4.

Metals

Twenty-three metals were detected in one or more of the soil samples analyzed. The following four metals were detected above their respective UUSCOs in one or more of the soil samples: copper (max. 62.3 mg/kg), lead (max. 379 mg/kg), mercury (max. 0.27 mg/kg), and zinc (max. 173 mg/kg). No metals were detected above the RRSCOs. The detected concentrations in the soil samples are most likely attributable some combination of historic fill, which often contains variable concentrations of metals, and prior Site uses.

Soil analytical results for metals are presented in Table 5.

PCBs and Pesticides

PCBs were not detected above laboratory reporting limits in any of the soil samples analyzed during the investigation.

The pesticides P,P'-DDE and P,P'-DDT were detected in the sample SB-08_0-2_20241213 at concentrations of 0.004 mg/kg and 0.008 mg/kg, respectively. These values are above the UUSCO of 0.0033 mg/kg, but below their RRSCOs. The pesticide cis-chlordane was also detected in the sample SB-15_2-4_20241211, but below its UUSCO and RRSCO.

Soil analytical results for PCBs are presented in Table 6, and results for pesticides are presented in Table 7.

Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane in Soil

Perfluorooctanesulfonic acid (PFOS) was detected in the soil sample analyzed (SB-08_0-2_20241213) at a concentration of 2.17 parts per billion (ppb), above the UUSCO guidance value of 0.88 ppb, but below the RRSCO guidance value of 44 ppb. Perfluorooctanoic acid (PFOA) was

not detected above laboratory reporting limits. The compound 1,4-dioxane, analyzed as an SVOC, was not detected above laboratory reporting limits in any of the soil samples.

Soil analytical results for PFAS are presented in Table 8. Soil analytical results for 1,4-dioxane are presented in Table 4.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 2. Figure 4 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives for Unrestricted Use and Restricted Residential Use.

5.3 Groundwater Chemistry

Three groundwater samples were collected during the RI for laboratory analysis from the three temporary monitoring wells (TW-08 through TW-10). Groundwater sample analytical results for VOCs, SVOCs, PCBs, pesticides, metals (total and dissolved), and 1,4-dioxane were compared to the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs), which were developed based on use as a source of drinking water, although groundwater in this portion of Queens is not used as a source of potable water. One aqueous trip blank was included with the sample shipment for QA/QC purposes and was analyzed for VOCs only. Analytical results are presented in Tables 9 through 14. Figure 5 shows the location and posts the values for groundwater that exceeded the AWQSGVs. Groundwater laboratory analytical data reports for the RI are included in Appendix F.

The groundwater samples were additionally submitted for analysis of PFAS; however, after the sample jars were handed off to the lab courier, the cooler was lost during transit to the Eurofins Cleveland laboratory in Barberton, Ohio.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2.

Volatile Organic Compounds (VOCs) in Groundwater

Six VOCs (bromodichloromethane, chloroform, cis-1,2-dichloroethylene, dibromochloromethane, PCE, and TCE) were detected in one or more groundwater samples at concentrations ranging from 0.34 micrograms per liter (µg/L) of bromodichloromethane to 310 µg/L of PCE. PCE was detected in all three groundwater samples at concentrations ranging from 60 to 310 µg/L, above the AWQSGV of 5 µg/L. The highest concentration was detected in sample TW-10_20241212, collected from the southern portion of the Site. No other VOCs were detected in the groundwater samples above the AWQSGVs. No VOCs were detected above laboratory reporting limits in the aqueous trip blank samples. Groundwater analytical results for VOCs are presented in Table 9.

Semi-volatile Organic Compounds (SVOCs) in Groundwater

Three SVOCs, 1,4-dioxane, caprolactam, and di-n-butyl phthalate, were detected in one or more of the groundwater samples at concentrations up to 21 µg/L. Caprolactam and di-n-butyl phthalate were detected in all three groundwater samples; however, 1,4-dioxane was only detected in groundwater samples TW-08_20241213 and TW-10_20241213. No SVOCs were detected above their respective AWQSGVs.

Groundwater analytical results for SVOCs are presented in Table 10.

Metals in Groundwater

Twenty-two metals were detected in the total (unfiltered) groundwater samples. The following fourteen metals were detected above the AWQSGVs in one or more of the samples: arsenic (max. 73.3_µg/L), barium (max. 4,580 µg/L), beryllium (max. 14 µg/L), total chromium (max. 1,350 µg/L), copper (max. 1,000 µg/L), iron (max. 667,000 µg/L), lead (max. 707 µg/L), magnesium (max. 370,000 µg/L), manganese (max. 18,400 µg/L), mercury (max. 1.1 µg/L), nickel (max. 814 µg/L), sodium (max. 123,000 µg/L), thallium (max. 1.6 µg/L), and zinc (max. 2,040 µg/L).

Thirteen metals were detected in the dissolved (filtered) groundwater samples. The following two metals were detected above the AWQSGVs in one or more samples: manganese (max. 412 µg/L), and sodium (max. 134,000 µg/L)

The metal detections are likely related to regional groundwater conditions and not due to an on-site source. Groundwater analytical results for total metals are presented in Table 11 and results for dissolved metals are presented in Table 12.

Polychlorinated Biphenyls (PCBs) and Pesticides in Groundwater

No PCBs or pesticides were detected above laboratory reporting limits in any of the groundwater samples.

Groundwater analytical results for PCBs are presented in Table 13 and results for pesticides are presented in Table 14.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2. Exceedances of applicable groundwater standards are shown.

Figure 5 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

Soil vapor samples collected during the RI were compared to the Soil Vapor/Indoor Air Decision Matrices A through F, as detailed in the May 2017 and February 2024 updates to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion. Since indoor air samples were not collected as part of the RI (and could not be collected since there are no structures on-site), the results were conservatively compared to the soil vapor matrix concentrations that correspond to a recommended action of "Mitigate," regardless of the corresponding indoor air concentrations.

Petroleum-related VOCs, including 1,3-butadiene, 2,2,4-trimethylpentane, benzene, butane, cyclohexane, methyl ethyl ketone, n-heptane, n-hexane, styrene, and toluene were detected at concentrations ranging from 2.3 µg/m^3 (2,2,4-trimethylpentane in sample SV-06_20241213) to 66 µg/m^3 (butane in sample SV-07_20241213). Solvent-related VOCs, including carbon disulfide, chloroform, cis-1,2-dichloroethylene, PCE, and TCE were detected at concentrations ranging from 1.4 µg/m^3 (PCE in sample SV-07_20241213) to 25 µg/m^3 (PCE in sample SV-11_20241213).

TCE was detected in soil vapor sample SV-11_20241213, at a concentration of 4.4 µg/m^3, below the Matrix Value of 60 µg/m^3. According to Matrix A, the applicable matrix for TCE, soil vapor concentrations greater than 60 µg/m^3 result in a recommendation for mitigation, regardless of the indoor air concentration.

PCE was detected in soil vapor samples SV-07_20241213 and SV-11_20241213, at concentrations of 1.4 µg/m^3 and 25 µg/m^3 respectively, below Matrix Value of 1,000 µg/m^3. According to Matrix B, the applicable matrix for PCE, soil vapor concentrations greater than 1,000 µg/m^3 result in a recommendation for mitigation, regardless of the indoor air concentration.

Based on the distribution of elevated chlorinated solvent-related VOCs, and previous soil vapor results from the 2021 Phase II investigation, the soil vapor detections are likely attributable to an on-site source.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 15. Figure 6 shows the location and posts the values for soil vapor samples with detected concentrations.

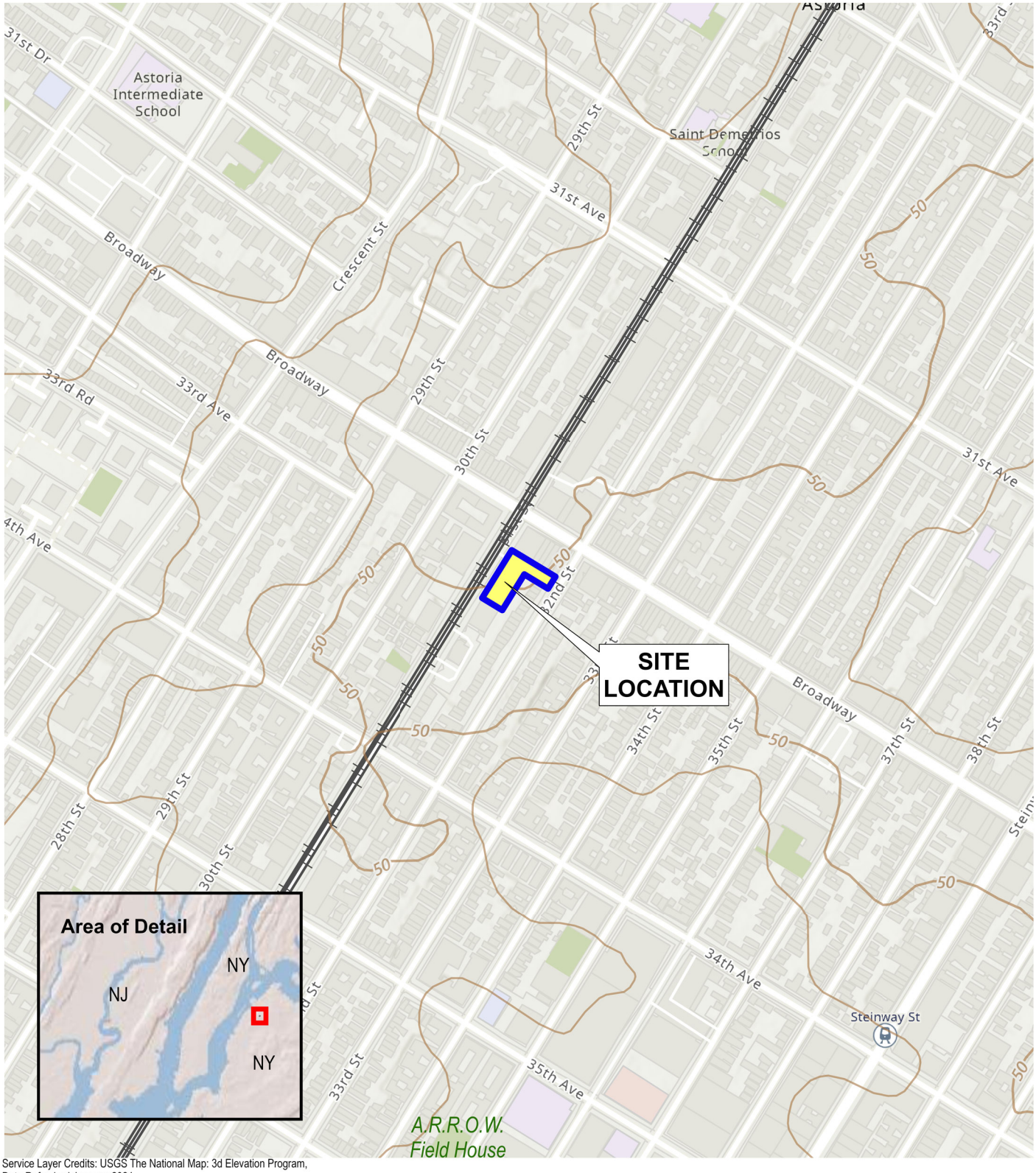
5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed January, 2024

0 500 1,000

SCALE IN FEET

N

akrf

440 Park Avenue South, New York, NY 10016

31-07 31st Street
Queens, New York

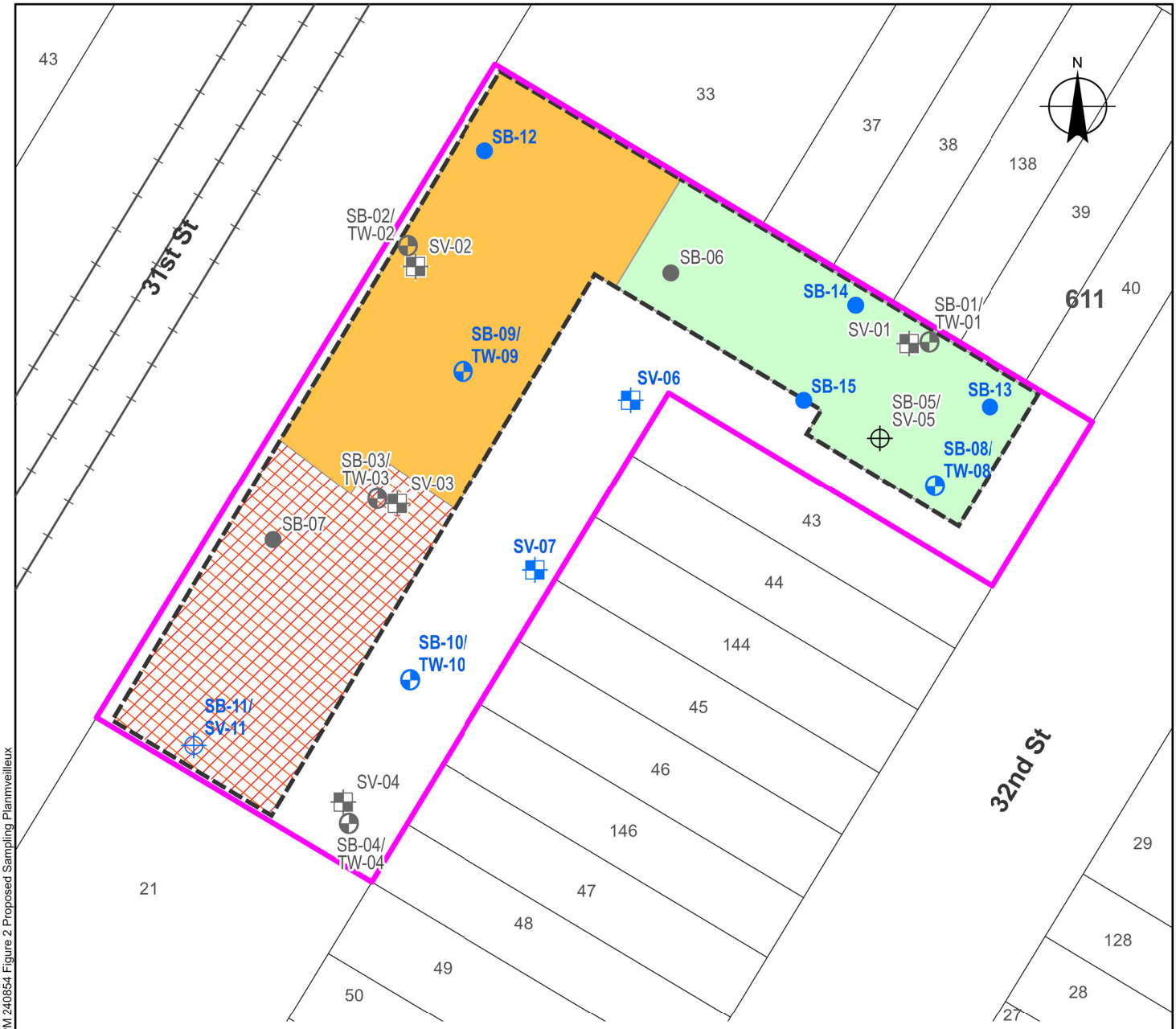
SITE LOCATION

DATE
1/10/2025

PROJECT NO.
240854

FIGURE
1

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARI\SARI\Phase II Figures_DCEDITS.aprx8/2/2024 11:48 AM\240854 Fig 1 Site Locationmveilleux



LEGEND

- PROJECT SITE BOUNDARY
- 25 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- PROPOSED CRAWLSPACE
- PROPOSED BUILDING
- PROPOSED CELLAR
- PROPOSED SLAB-ON-GRADE
- 2022 PHASE II SOIL BORING
- 2022 PHASE II SOIL BORING/SOIL VAPOR POINT
- 2022 PHASE II SOIL VAPOR POINT
- 2022 PHASE II SOIL BORING/TEMPORARY WELL
- 2024 PHASE II SOIL BORING
- 2024 PHASE II SOIL BORING/SOIL VAPOR POINT
- 2024 PHASE II SOIL BORING/TEMPORARY WELL
- 2024 PHASE II SOIL VAPOR POINT

0 20 40
SCALE IN FEET

Aerial Source:
2022 New York State ITS GIS Orthoimagery

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\Phase II Figures_DCEDITS.aprx 1/8/2025 4:47 PM 240854 Figure 2 Proposed Sampling Plannveilleux

akrf
440 Park Avenue South, New York, NY 10016

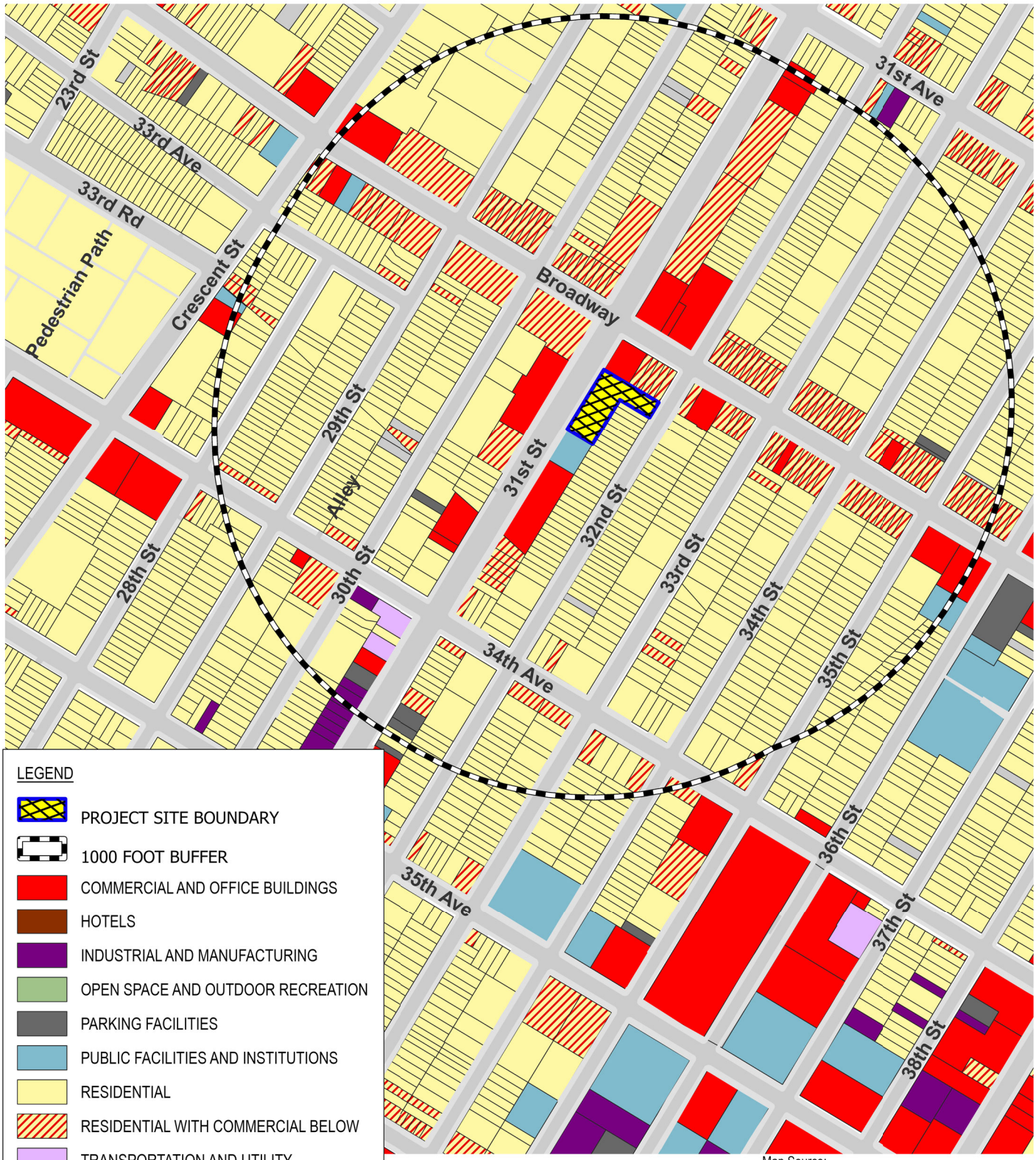
31-07 31st Street
Queens, New York

SITE PLAN AND SAMPLING LOCATIONS

DATE
1/10/2025

PROJECT NO.
240854

FIGURE
2



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

0 400 800
SCALE IN FEET

N

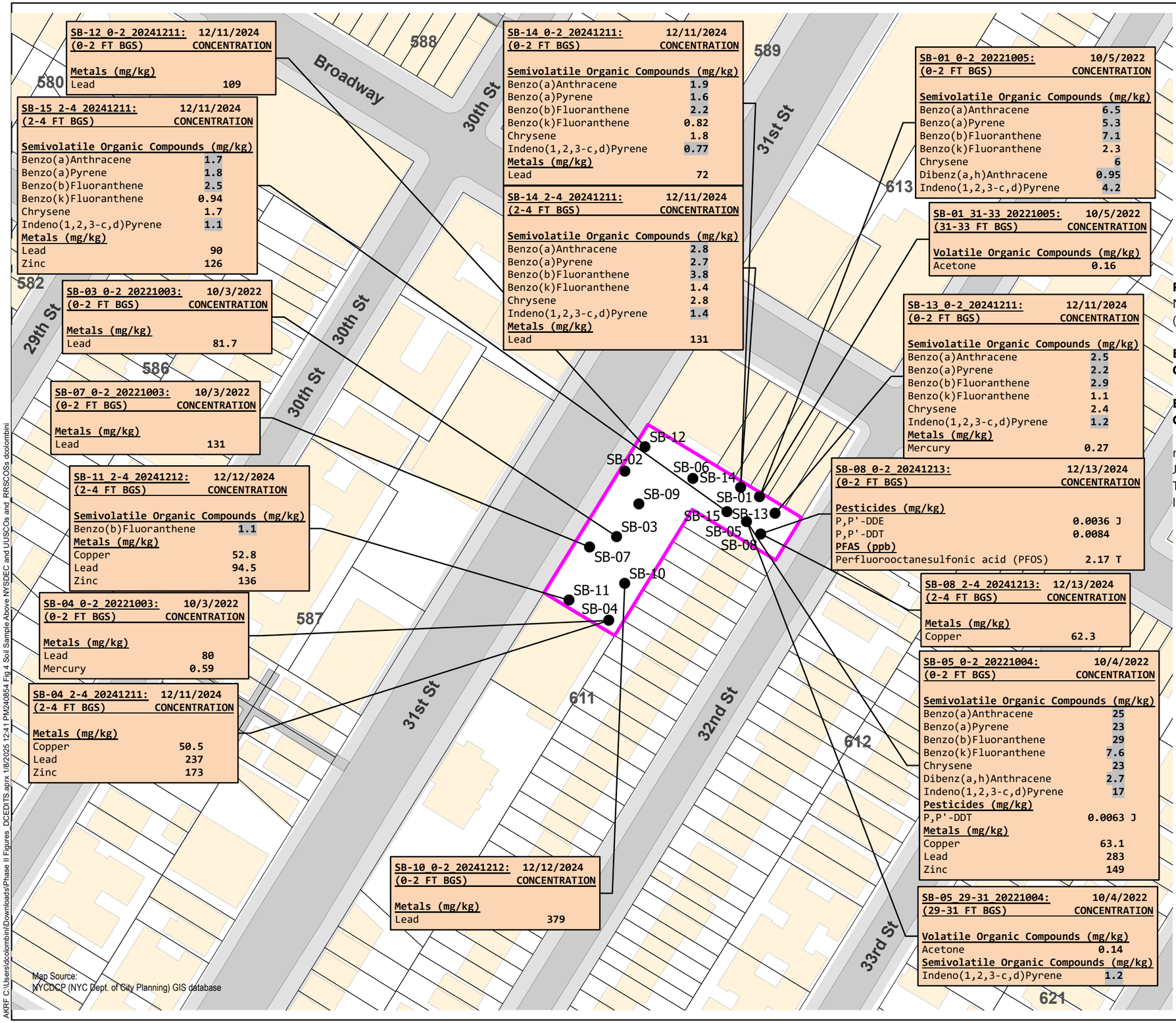
AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\Phase II Surrounding Land Use Figure.aprx1/26/2022 9:52 AMFig 3 Surrounding Land Usemveilleux

akrf
440 Park Avenue South, New York, NY 10016

31-07 31st Street
Queens, New York

SURROUNDING LAND USE

DATE
1/10/2025
PROJECT NO.
240854
FIGURE
3



SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	109

SB-15 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	1.7
Benzo(a)Pyrene	1.8
Benzo(b)Fluoranthene	2.5
Benzo(k)Fluoranthene	0.94
Chrysene	1.7
Indeno(1,2,3-c,d)Pyrene	1.1
Metals (mg/kg)	
Lead	90
Zinc	126

SB-03 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	81.7

SB-07 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	131

SB-11 2-4 20241212: 12/12/2024
(2-4 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(b)Fluoranthene	1.1
Metals (mg/kg)	
Copper	52.8
Lead	94.5
Zinc	136

SB-04 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	80
Mercury	0.59

SB-04 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Copper	50.5
Lead	237
Zinc	173

SB-14 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	1.9
Benzo(a)Pyrene	1.6
Benzo(b)Fluoranthene	2.2
Benzo(k)Fluoranthene	0.82
Chrysene	1.8
Indeno(1,2,3-c,d)Pyrene	0.77
Metals (mg/kg)	
Lead	72

SB-14 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	2.8
Benzo(a)Pyrene	2.7
Benzo(b)Fluoranthene	3.8
Benzo(k)Fluoranthene	1.4
Chrysene	2.8
Indeno(1,2,3-c,d)Pyrene	1.4
Metals (mg/kg)	
Lead	131

SB-10 0-2 20241212: 12/12/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	379

SB-01 0-2 20221005: 10/5/2022
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	6.5
Benzo(a)Pyrene	5.3
Benzo(b)Fluoranthene	7.1
Benzo(k)Fluoranthene	2.3
Chrysene	6
Dibenz(a,h)Anthracene	0.95
Indeno(1,2,3-c,d)Pyrene	4.2

SB-01 31-33 20221005: 10/5/2022
(31-33 FT BGS) CONCENTRATION

Volatile Organic Compounds (mg/kg)	
Acetone	0.16

SB-13 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	2.5
Benzo(a)Pyrene	2.2
Benzo(b)Fluoranthene	2.9
Benzo(k)Fluoranthene	1.1
Chrysene	2.4
Indeno(1,2,3-c,d)Pyrene	1.2
Metals (mg/kg)	
Mercury	0.27

SB-08 0-2 20241213: 12/13/2024
(0-2 FT BGS) CONCENTRATION

Pesticides (mg/kg)	
P,P'-DDE	0.0036 J
P,P'-DDT	0.0084
PFAS (ppb)	
Perfluorooctanesulfonic acid (PFOS)	2.17 T

SB-08 2-4 20241213: 12/13/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Copper	62.3

SB-05 0-2 20221004: 10/4/2022
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	25
Benzo(a)Pyrene	23
Benzo(b)Fluoranthene	29
Benzo(k)Fluoranthene	7.6
Chrysene	23
Dibenz(a,h)Anthracene	2.7
Indeno(1,2,3-c,d)Pyrene	17
Pesticides (mg/kg)	
P,P'-DDT	0.0063 J
Metals (mg/kg)	
Copper	63.1
Lead	283
Zinc	149

SB-05 29-31 20221004: 10/4/2022
(29-31 FT BGS) CONCENTRATION

Volatile Organic Compounds (mg/kg)	
Acetone	0.14
Semivolatile Organic Compounds (mg/kg)	
Indeno(1,2,3-c,d)Pyrene	1.2

N

LEGEND

- SOIL SAMPLE LOCATION
- PROJECT SITE BOUNDARY
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- 2389 BLOCK NUMBER

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits

	UUGVs ppb	RRGVs ppb	RRSCO mg/kg	UUSCO mg/kg
Volatile Organic Compounds				
Acetone			100	0.05
Semivolatile Organic Compounds				
Benzo(a)Anthracene			1	1
Benzo(a)Pyrene			1	1
Benzo(b)Fluoranthene			1	1
Benzo(k)Fluoranthene			3.9	0.8
Chrysene			3.9	1
Dibenz(a,h)Anthracene			0.33	0.33
Indeno(1,2,3-c,d)Pyrene			0.5	0.5
Metals				
Copper			270	50
Lead			400	63
Mercury			0.81	0.18
Zinc			10,000	109
Pesticides				
P,P'-DDE			8.9	0.0033
P,P'-DDT			7.9	0.0033
PFAS				
Perfluorooctanesulfonic acid (PFOS)	0.88	44		

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	109

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

SOIL SAMPLE CONCENTRATIONS ABOVE NYSDEC UUSCOS AND RRSCOS

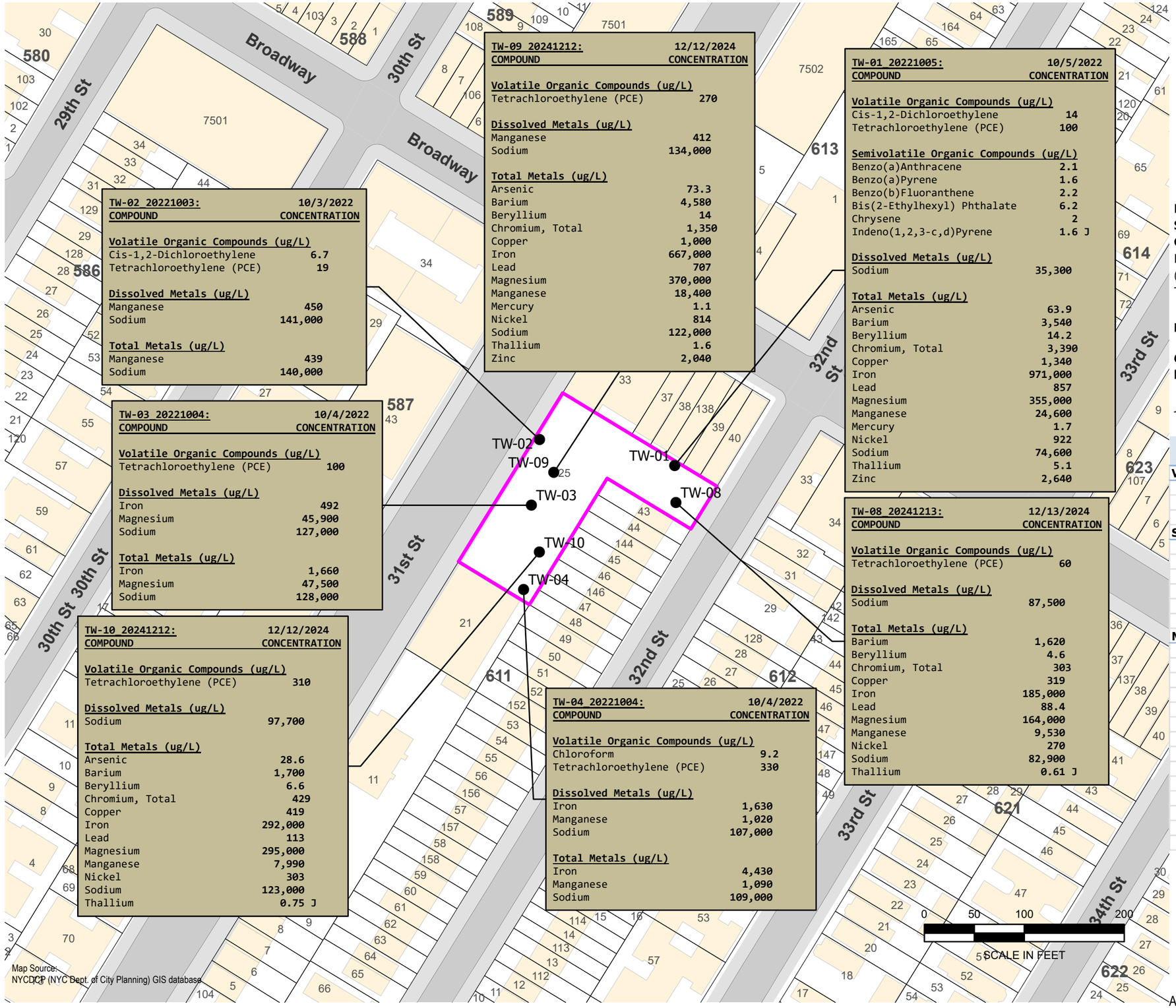
31-07 31st Street
Queens, New York

DATE
1/8/2025

PROJECT NO.
240854

FIGURE
4

AKRF C:\Users\dcolombini\Downloads\Phase II Figures_DCED\TS.aprx 1/8/2025 12:41 PM240854 Fig 4 Soil Sample Above NYSDEC and UUSCOs and RRSCOs dcolombini



TW-09 20241212: 12/12/2024

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**270**
Dissolved Metals (ug/L)	
Manganese	**412**
Sodium	**134,000**
Total Metals (ug/L)	
Arsenic	**73.3**
Barium	**4,580**
Beryllium	**14**
Chromium, Total	**1,350**
Copper	**1,000**
Iron	**667,000**
Lead	**707**
Magnesium	**370,000**
Manganese	**18,400**
Mercury	**1.1**
Nickel	**814**
Sodium	**122,000**
Thallium	**1.6**
Zinc	**2,040**

TW-01 20221005: 10/5/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**14**
Tetrachloroethylene (PCE)	**100**
Semivolatile Organic Compounds (ug/L)	
Benzo(a)Anthracene	**2.1**
Benzo(a)Pyrene	**1.6**
Benzo(b)Fluoranthene	**2.2**
Bis(2-Ethylhexyl) Phthalate	**6.2**
Chrysene	**2**
Indeno(1,2,3-c,d)Pyrene	**1.6 J**
Dissolved Metals (ug/L)	
Sodium	**35,300**
Total Metals (ug/L)	
Arsenic	**63.9**
Barium	**3,540**
Beryllium	**14.2**
Chromium, Total	**3,390**
Copper	**1,340**
Iron	**971,000**
Lead	**857**
Magnesium	**355,000**
Manganese	**24,600**
Mercury	**1.7**
Nickel	**922**
Sodium	**74,600**
Thallium	**5.1**
Zinc	**2,640**

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**
Dissolved Metals (ug/L)	
Manganese	**450**
Sodium	**141,000**
Total Metals (ug/L)	
Manganese	**439**
Sodium	**140,000**

TW-03 20221004: 10/4/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**100**
Dissolved Metals (ug/L)	
Iron	**492**
Magnesium	**45,900**
Sodium	**127,000**
Total Metals (ug/L)	
Iron	**1,660**
Magnesium	**47,500**
Sodium	**128,000**

TW-08 20241213: 12/13/2024

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**60**
Dissolved Metals (ug/L)	
Sodium	**87,500**
Total Metals (ug/L)	
Barium	**1,620**
Beryllium	**4.6**
Chromium, Total	**303**
Copper	**319**
Iron	**185,000**
Lead	**88.4**
Magnesium	**164,000**
Manganese	**9,530**
Nickel	**270**
Sodium	**82,900**
Thallium	**0.61 J**

TW-10 20241212: 12/12/2024

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**310**
Dissolved Metals (ug/L)	
Sodium	**97,700**
Total Metals (ug/L)	
Arsenic	**28.6**
Barium	**1,700**
Beryllium	**6.6**
Chromium, Total	**429**
Copper	**419**
Iron	**292,000**
Lead	**113**
Magnesium	**295,000**
Manganese	**7,990**
Nickel	**303**
Sodium	**123,000**
Thallium	**0.75 J**

TW-04 20221004: 10/4/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Chloroform	**9.2**
Tetrachloroethylene (PCE)	**330**
Dissolved Metals (ug/L)	
Iron	**1,630**
Manganese	**1,020**
Sodium	**107,000**
Total Metals (ug/L)	
Iron	**4,430**
Manganese	**1,090**
Sodium	**109,000**

N

LEGEND

- **2389** BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- PROJECT SITE BOUNDARY
- GROUNDWATER SAMPLE LOCATION

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC)
Technical and Operational Guidance Series (TOGS) (1.1.1):

µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs ug/l
Volatile Organic Compounds	
Chloroform	7
Cis-1,2-Dichloroethylene	5
Tetrachloroethylene (PCE)	5
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.002
Benzo(a)Pyrene	0
Benzo(b)Fluoranthene	0.002
Bis(2-Ethylhexyl) Phthalate	5
Chrysene	0.002
Indeno(1,2,3-c,d)Pyrene	0.002
Metals	
Arsenic	25
Barium	1,000
Beryllium	3
Chromium, Total	50
Copper	200
Iron	300
Lead	25
Magnesium	35,000
Manganese	300
Mercury	0.7
Nickel	100
Sodium	20,000
Thallium	0.5
Zinc	2,000

Sample ID — Sample Date

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

GROUNDWATER SAMPLE CONCENTRATIONS ABOVE NYSDEC AWQSGVS

31-07 31st Street
Queens, New York

DATE **1/8/2025**
PROJECT NO. **240854**
FIGURE **5**

AKRF C:\Users\dcolombini\Downloads\Phase II Figures_DCEDITS.aprx 1/8/2025 12:42 PM240854 Fig 5 Groundwater Sample Above AWQSGVs dcolombini



SV-04_20221003: 10/3/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	2.1
1,3-Butadiene	3.9
1,3-Dichlorobenzene	2.2
1,3,5-Trimethylbenzene (Mesitylene)	0.49 J
2-Hexanone	1.6 J
2,2,4-Trimethylpentane	1.2
4-Ethyltoluene	0.73 J
Acetone	130 D
Benzene	4.1
Butane	12
Carbon Disulfide	3
Carbon Tetrachloride	0.24
Chlorodifluoromethane	0.87 J
Chloroform	5.9
Chloromethane	0.32 J
Cis-1,2-Dichloroethylene	22
Cyclohexane	1.1
Cymene	2.7
Dichlorodifluoromethane	1.8 J
Ethylbenzene	5.8
Isopropanol	24
M,P-Xylenes	23
Methyl Ethyl Ketone (2-Butanone)	8.2
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1 J
Methyl Methacrylate	0.76 J
Methylene Chloride	1.2 J
N-Heptane	3.9
N-Hexane	7.1
N-Propylbenzene	0.53 J
O-Xylene (1,2-Dimethylbenzene)	4.9
Styrene	0.42 J
Tert-Butyl Alcohol	14 J
Tetrachloroethylene (PCE)	1,900 D
Toluene	29
Trichloroethylene (TCE)	28
Trichlorofluoromethane	1 J

SV-02_20221003: 10/3/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	1.8
1,3-Butadiene	1.6
1,3-Dichlorobenzene	1.6
1,3,5-Trimethylbenzene (Mesitylene)	0.45 J
2,2,4-Trimethylpentane	1.5
4-Ethyltoluene	0.54 J
Acetone	170 D
Benzene	2.2
Butane	8.1
Carbon Disulfide	1.6
Carbon Tetrachloride	0.4
Chlorodifluoromethane	8
Chloroform	10
Chloromethane	0.43 J
Cis-1,2-Dichloroethylene	110
Cyclohexane	1
Cymene	2.3
Dichlorodifluoromethane	0.8 J
Ethylbenzene	4.2
Isopropanol	31
M,P-Xylenes	17
Methyl Ethyl Ketone (2-Butanone)	6
Methylene Chloride	0.65 J
N-Heptane	2.4
N-Hexane	3.7
N-Propylbenzene	0.38 J
O-Xylene (1,2-Dimethylbenzene)	3.8
Styrene	0.3 J
Tert-Butyl Alcohol	8.6 J
Tetrachloroethylene (PCE)	210
Toluene	24
Trans-1,2-Dichloroethene	1
Trichloroethylene (TCE)	34
Trichlorofluoromethane	2

SV-11_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
Chloroform	3.1 J
Cis-1,2-Dichloroethylene	7.9
Styrene	3.1 J
Tetrachloroethylene (PCE)	25
Trichloroethylene (TCE)	4.4

SV-07_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,3-Butadiene	5.6
2,2,4-Trimethylpentane	3.5 J
Acetone	78 J
Benzene	3.7 J
Butane	66
Carbon Disulfide	12 J
Cyclohexane	13
Methyl Ethyl Ketone (2-Butanone)	18
N-Heptane	9.4
N-Hexane	25
Tetrachloroethylene (PCE)	1.4 J
Toluene	2.6 J

SV-06_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,3-Butadiene	13
2,2,4-Trimethylpentane	2.3 J
Acetone	54 J
Benzene	5 J
Butane	45
Carbon Disulfide	21
Cyclohexane	5.9 J
Methyl Ethyl Ketone (2-Butanone)	14 J
N-Heptane	3.6 J
N-Hexane	11 J
Toluene	5.5 J

SV-01_20221004: 10/4/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.48 J
1,2,4-Trimethylbenzene	1.7
1,3-Butadiene	3.6
1,3-Dichlorobenzene	1.9
1,3,5-Trimethylbenzene (Mesitylene)	0.33 J
2,2,4-Trimethylpentane	1.2
4-Ethyltoluene	0.33 J
Acetone	85
Benzene	2
Butane	12
Carbon Disulfide	4.1
Carbon Tetrachloride	0.32
Chlorodifluoromethane	4
Chloroform	8.6
Chloromethane	0.8 J
Cis-1,2-Dichloroethylene	200 D
Cyclohexane	1.1
Cymene	3
Dichlorodifluoromethane	1.8 J
Ethylbenzene	1.4
Isopropanol	24
Isopropylbenzene (Cumene)	0.28 J
M,P-Xylenes	5.3
Methyl Ethyl Ketone (2-Butanone)	10
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.2 J
Methylene Chloride	3.9
N-Heptane	2.9
N-Hexane	3.3
N-Propylbenzene	0.26 J
O-Xylene (1,2-Dimethylbenzene)	2
Styrene	0.41 J
Tert-Butyl Alcohol	14 J
Tetrachloroethylene (PCE)	780 D
Toluene	11
Trans-1,2-Dichloroethene	1.1
Trichloroethylene (TCE)	30
Trichlorofluoromethane	1.6

SV-03_20221004: 10/4/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	1.6
1,3-Butadiene	2.6
1,3-Dichlorobenzene	1.5
1,3,5-Trimethylbenzene (Mesitylene)	0.39 J
2,2,4-Trimethylpentane	3.3
4-Ethyltoluene	0.39 J
Acetone	82
Benzene	2.2
Butane	9.9
Carbon Disulfide	2.3
Carbon Tetrachloride	0.26
Chlorodifluoromethane	8.3
Chloroform	9.5
Chloromethane	0.41 J
Cis-1,2-Dichloroethylene	96
Cyclohexane	0.65 J
Cymene	1.9
Dichlorodifluoromethane	2.3 J
Ethylbenzene	2.2
Isopropanol	24
M,P-Xylenes	8.5
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.3 J
N-Heptane	2.5
N-Hexane	3.3
N-Propylbenzene	0.27 J
O-Xylene (1,2-Dimethylbenzene)	2.4
Tert-Butyl Alcohol	36
Tetrachloroethylene (PCE)	130
Toluene	6.1
Trans-1,2-Dichloroethene	0.61 J
Trichloroethylene (TCE)	45
Trichlorofluoromethane	1.4

SV-05_20221004: 10/4/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,1,1-Trichloroethane	0.33 J
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.56 J
1,2,4-Trimethylbenzene	1.5
1,3-Butadiene	6.6
1,3-Dichlorobenzene	2.6
1,3,5-Trimethylbenzene (Mesitylene)	0.38 J
2,2,4-Trimethylpentane	3.5
4-Ethyltoluene	0.39 J
Acetone	87
Benzene	3.9
Butane	25
Carbon Disulfide	5.4
Carbon Tetrachloride	0.28
Chlorodifluoromethane	2.2
Chloroform	27
Chloromethane	0.27 J
Cis-1,2-Dichloroethylene	45
Cyclohexane	2
Cymene	3.6
Dichlorodifluoromethane	2.3 J
Ethylbenzene	2.9
Isopropanol	11 J
Isopropylbenzene (Cumene)	0.39 J
M,P-Xylenes	9
Methyl Ethyl Ketone (2-Butanone)	11
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.7 J
N-Heptane	5.8
N-Hexane	7
N-Propylbenzene	0.28 J
O-Xylene (1,2-Dimethylbenzene)	2.6
Tert-Butyl Alcohol	28
Tetrachloroethylene (PCE)	390 D
Toluene	5.8
Trichloroethylene (TCE)	25
Trichlorofluoromethane	3.3

LEGEND

- PROJECT_SITE_BOUNDARY
- SOIL VAPOR SAMPLE LOCATION
- 2389 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER

N

SOIL VAPOR

µg/m³- micrograms per cubic meter

J: The reported value is estimated.
D: Analyte concentration obtained from dilution.

0 75 150 300
SCALE IN FEET

Sample ID — Sample Date

SV-11_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
Chloroform	3.1 J
Cis-1,2-Dichloroethylene	7.9

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

31-07 31ST STREET
Queens, New York

SOIL VAPOR DETECTIONS

DATE
1/8/2025

PROJECT NO.
240854

FIGURE
2

AKRF C:\Users\dcolombini\Documents\ArcGIS\Projects\Fig6_240854\Fig6_240854.aprx 1/8/2025 4:51 PM xxx Fig x Soil Sample Above NYSDEC and UUSCOs and _RRSCOSs dcolombini

TABLES

Table 1
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Depth to Water in Temporary Wells

Well ID	Total Depth of Well (ft. bgs)	Screen Interval (ft. bgs)	Depth to Groundwater (ft. below TOC)
TW-08	37.9	30 to 40	31.40
TW-09	39.98	30 to 40	32.67
TW-10	40.18	30 to 40	35.06

Notes:
ft. bgs = feet below ground surface
TOC = top of casing
NA = not applicable

Table 2
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Sample Collection Summary

Matrix	Sample ID	Date of Collection	Sample Depth (ft. bgs)	Analysis
Soil	SB-04_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-04_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-08_0-2_20241213	12/13/2024	0-2	VOCs, SVOCs, Metals, PCBs, Pesticides, and PFAS
	SB-08_2-4_20241213	12/13/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-08_9-11_20241213	12/13/2024	9-11	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-09_0-2_20241212	12/12/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-09_8-10_20241212	12/12/2024	8-10	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-09_10-12_20241212	12/12/2024	10-12	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-10_0-2_20241212	12/12/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-10_2-4_20241212	12/12/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-10_8-10_20241212	12/12/2024	8-10	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-11_0-2_20241212	12/12/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-11_2-4_20241212	12/12/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-11_4-6_20241212	12/12/2024	4-6	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-12_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-12_8-10_20241211	12/11/2024	8-10	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-12_10-12_20241211	12/11/2024	10-12	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-13_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-13_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-14_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-14_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-15_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-15_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
Groundwater	TW-08_20241213	12/13/2024	NA	VOCs, SVOCs, Metals (total and dissolved), PCBs, and Pesticides
	TW-09_20241212	12/12/2024	NA	VOCs, SVOCs, Metals (total and dissolved), PCBs, and Pesticides
	TW-10_20241212	12/12/2024	NA	VOCs, SVOCs, Metals (total and dissolved), PCBs, and Pesticides
Soil Vapor	SV-06_20241213	12/13/2024	2	VOCs
	SV-07_20241213	12/13/2024	2	VOCs
	SV-11_20241213	12/13/2024	6	VOCs

Notes:
ft. bg: feet below grade surface
VOCs: Volatile Organic Compounds
SVOCs: Semi-volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
PFAS: Per- and Polyfluoroalkyl Substances

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.001 U	0.0011 U	0.00096 UT	0.00098 UT	0.0011 UT
1,1,2,2-Tetrachloroethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.001 U	0.0011 U	0.00096 UT	0.00098 UT	0.0011 UT
1,1,2-Trichloroethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,1-Dichloroethane	0.27	26	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,1-Dichloroethene	0.33	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2,3-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2,4-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2,4-Trimethylbenzene	3.6	52	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dichlorobenzene	1.1	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dichloroethane	0.02	3.1	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dichloropropane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,3-Dichlorobenzene	2.4	49	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,4-Dichlorobenzene	1.8	13	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
2-Hexanone	NS	NS	0.005 U	0.0055 U	0.0048 U	0.0049 U	0.0055 U
Acetone	0.05	100	0.006 U	0.0066 U	0.0058 U	0.0059 U	0.0066 U
Benzene	0.06	4.8	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromochloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromodichloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromoform	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromomethane	NS	NS	0.002 U	0.0022 U	0.0019 U	0.002 U	0.0022 U
Carbon Disulfide	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Carbon Tetrachloride	0.76	2.4	0.001 U	0.0011 U	0.00096 UT	0.00098 UT	0.0011 UT
Chlorobenzene	1.1	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Chloroethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Chloroform	0.37	49	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Chloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Cis-1,2-Dichloroethylene	0.25	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Cis-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Cyclohexane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Dibromochloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Dichlorodifluoromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Ethylbenzene	1	41	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Isopropylbenzene (Cumene)	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
M,P-Xylenes	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Methyl Acetate	NS	NS	0.005 U	0.0055 U	0.0048 U	0.0049 U	0.0055 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.005 U	0.0055 U	0.0048 U	0.0049 U	0.0055 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.005 UT	0.0055 UT	0.0048 U	0.0049 U	0.0055 U
Methylcyclohexane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Methylene Chloride	0.05	100	0.002 U	0.0022 U	0.0019 U	0.002 U	0.0022 U
N-Butylbenzene	12	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
N-Propylbenzene	3.9	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Sec-Butylbenzene	11	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Styrene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
T-Butylbenzene	5.9	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Tert-Butyl Methyl Ether	0.93	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Tetrachloroethylene (PCE)	1.3	19	0.001 U	0.0016	0.0027	0.0088	0.0011 U
Toluene	0.7	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trans-1,2-Dichloroethene	0.19	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trans-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trichloroethylene (TCE)	0.47	21	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trichlorofluoromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Vinyl Chloride	0.02	0.9	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Xylenes, Total	0.26	100	0.002 U	0.0022 U	0.0019 U	0.002 U	0.0022 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212
		Laboratory Sample ID	460-317182-1	460-317182-2	460-317182-3	460-317182-4	460-317182-5
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1,2,2-Tetrachloroethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1,2-Trichloroethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1-Dichloroethane	0.27	26	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1-Dichloroethene	0.33	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2,3-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2,4-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2,4-Trimethylbenzene	3.6	52	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dichlorobenzene	1.1	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dichloroethane	0.02	3.1	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dichloropropane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,3-Dichlorobenzene	2.4	49	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,4-Dichlorobenzene	1.8	13	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
2-Hexanone	NS	NS	0.005 U	0.0055 U	0.0056 U	0.0053 U	0.0047 U
Acetone	0.05	100	0.006 U	0.0066 U	0.0067 U	0.0064 U	0.018
Benzene	0.06	4.8	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromochloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromodichloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromoform	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromomethane	NS	NS	0.002 U	0.0022 U	0.0022 U	0.0021 U	0.0019 U
Carbon Disulfide	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00075 J
Carbon Tetrachloride	0.76	2.4	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chlorobenzene	1.1	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chloroethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chloroform	0.37	49	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Cis-1,2-Dichloroethylene	0.25	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Cis-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Cyclohexane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Dibromochloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Dichlorodifluoromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Ethylbenzene	1	41	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Isopropylbenzene (Cumene)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
M,P-Xylenes	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Methyl Acetate	NS	NS	0.005 U	0.0055 U	0.0056 U	0.0053 U	0.0047 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.005 U	0.0055 U	0.0056 U	0.0053 U	0.0065
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.005 UT	0.0055 UT	0.0056 UT	0.0053 UT	0.0047 UT
Methylcyclohexane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Methylene Chloride	0.05	100	0.002 U	0.0022 U	0.0022 U	0.0021 U	0.0011 J
N-Butylbenzene	12	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
N-Propylbenzene	3.9	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Sec-Butylbenzene	11	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Styrene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
T-Butylbenzene	5.9	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Tert-Butyl Methyl Ether	0.93	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Tetrachloroethylene (PCE)	1.3	19	0.0036	0.0026	0.001 J	0.00077 J	0.0059
Toluene	0.7	100	0.001 U	0.0011 U	0.0011 U	0.00035 J	0.00023 J
Trans-1,2-Dichloroethene	0.19	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Trans-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Trichloroethylene (TCE)	0.47	21	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Trichlorofluoromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Vinyl Chloride	0.02	0.9	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Xylenes, Total	0.26	100	0.002 U	0.0022 U	0.0022 U	0.0021 U	0.0019 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211
		Laboratory Sample ID	460-317182-6	460-317182-7	460-317182-8	460-317182-9	460-317091-3
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1,2-Trichloroethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1-Dichloroethane	0.27	26	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1-Dichloroethene	0.33	100	0.0012 U	0.0014 U	0.0011 UT	0.0012 UT	0.001 U
1,2,3-Trichlorobenzene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2,4-Trichlorobenzene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2,4-Trimethylbenzene	3.6	52	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dichlorobenzene	1.1	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dichloroethane	0.02	3.1	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dichloropropane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,3-Dichlorobenzene	2.4	49	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,4-Dichlorobenzene	1.8	13	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
2-Hexanone	NS	NS	0.006 U	0.0069 U	0.0053 U	0.0059 U	0.005 U
Acetone	0.05	100	0.0072 U	0.0083 U	0.0063 U	0.0071 U	0.006 U
Benzene	0.06	4.8	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromochloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromodichloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromoform	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromomethane	NS	NS	0.0024 U	0.0028 U	0.0021 U	0.0024 U	0.002 U
Carbon Disulfide	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Carbon Tetrachloride	0.76	2.4	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chlorobenzene	1.1	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chloroethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chloroform	0.37	49	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Cis-1,2-Dichloroethylene	0.25	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Cis-1,3-Dichloropropene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Cyclohexane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Dibromochloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Dichlorodifluoromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Ethylbenzene	1	41	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Isopropylbenzene (Cumene)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
M,P-Xylenes	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Methyl Acetate	NS	NS	0.006 U	0.0069 U	0.0053 U	0.0059 U	0.005 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.006 U	0.0069 U	0.0053 U	0.0059 U	0.005 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.006 UT	0.0069 UT	0.0053 U	0.0059 U	0.005 UT
Methylcyclohexane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Methylene Chloride	0.05	100	0.0024 U	0.0028 U	0.0021 U	0.0024 U	0.002 U
N-Butylbenzene	12	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
N-Propylbenzene	3.9	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Sec-Butylbenzene	11	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Styrene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
T-Butylbenzene	5.9	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Tert-Butyl Methyl Ether	0.93	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Tetrachloroethylene (PCE)	1.3	19	0.00076 J	0.0043	0.087	0.0023	0.0057
Toluene	0.7	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Trans-1,2-Dichloroethene	0.19	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Trans-1,3-Dichloropropene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Trichloroethylene (TCE)	0.47	21	0.0012 U	0.0014 U	0.00038 J	0.0012 U	0.001 U
Trichlorofluoromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Vinyl Chloride	0.02	0.9	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Xylenes, Total	0.26	100	0.0024 U	0.0028 U	0.0021 U	0.0024 U	0.002 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211
		Laboratory Sample ID	460-317091-4	460-317091-5	460-317091-10	460-317091-11	460-317091-8
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1-Dichloroethane	0.27	26	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2,4-Trimethylbenzene	3.6	52	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dichlorobenzene	1.1	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dichloropropane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,3-Dichlorobenzene	2.4	49	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,4-Dichlorobenzene	1.8	13	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
2-Hexanone	NS	NS	0.0053 U	0.0055 U	0.0053 U	0.0055 U	0.005 U
Acetone	0.05	100	0.0063 U	0.0066 U	0.0063 U	0.0066 U	0.006 U
Benzene	0.06	4.8	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromodichloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromoform	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromomethane	NS	NS	0.0021 U	0.0022 U	0.0021 U	0.0022 U	0.002 U
Carbon Disulfide	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chlorobenzene	1.1	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chloroethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chloroform	0.37	49	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Cis-1,2-Dichloroethylene	0.25	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Cyclohexane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Dibromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Dichlorodifluoromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Ethylbenzene	1	41	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
M,P-Xylenes	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Methyl Acetate	NS	NS	0.0053 U	0.0055 U	0.0053 U	0.0055 U	0.005 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0053 U	0.0055 U	0.0053 U	0.0055 U	0.005 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0053 UT	0.0055 UT	0.0053 UT	0.0055 UT	0.005 UT
Methylcyclohexane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Methylene Chloride	0.05	100	0.0021 U	0.0022 U	0.0021 U	0.0022 U	0.002 U
N-Butylbenzene	12	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
N-Propylbenzene	3.9	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Sec-Butylbenzene	11	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Styrene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
T-Butylbenzene	5.9	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Tetrachloroethylene (PCE)	1.3	19	0.00051 J	0.00073 J	0.0011 U	0.0011 U	0.002
Toluene	0.7	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trichloroethylene (TCE)	0.47	21	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Xylenes, Total	0.26	100	0.0021 U	0.0022 U	0.0021 U	0.0022 U	0.002 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0011 U	0.0011 U	0.00097 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,1-Dichloroethane	0.27	26	0.0011 U	0.0011 U	0.00097 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.0011 U	0.00097 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2,4-Trimethylbenzene	3.6	52	0.0011 U	0.0011 U	0.00097 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2-Dichlorobenzene	1.1	100	0.0011 U	0.0011 U	0.00097 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0011 U	0.00097 U
1,2-Dichloropropane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0011 U	0.0011 U	0.00097 U
1,3-Dichlorobenzene	2.4	49	0.0011 U	0.0011 U	0.00097 U
1,4-Dichlorobenzene	1.8	13	0.0011 U	0.0011 U	0.00097 U
2-Hexanone	NS	NS	0.0055 U	0.0053 U	0.0049 U
Acetone	0.05	100	0.0066 U	0.0063 U	0.0058 U
Benzene	0.06	4.8	0.0011 U	0.0011 U	0.00097 U
Bromochloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Bromodichloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Bromoform	NS	NS	0.0011 U	0.0011 U	0.00097 U
Bromomethane	NS	NS	0.0022 U	0.0021 U	0.0019 U
Carbon Disulfide	NS	NS	0.0011 U	0.0011 U	0.00097 U
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.0011 U	0.00097 U
Chlorobenzene	1.1	100	0.0011 U	0.0011 U	0.00097 U
Chloroethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Chloroform	0.37	49	0.0011 U	0.0011 U	0.00097 U
Chloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Cis-1,2-Dichloroethylene	0.25	100	0.0011 U	0.0011 U	0.00097 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.00097 U
Cyclohexane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Dibromochloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Dichlorodifluoromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Ethylbenzene	1	41	0.0011 U	0.0011 U	0.00097 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 U	0.0011 U	0.00097 U
M,P-Xylenes	NS	NS	0.0011 U	0.0011 U	0.00097 U
Methyl Acetate	NS	NS	0.0055 U	0.0053 U	0.0049 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0055 U	0.0053 U	0.0049 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0055 UT	0.0053 UT	0.0049 UT
Methylcyclohexane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Methylene Chloride	0.05	100	0.0022 U	0.0021 U	0.0019 U
N-Butylbenzene	12	100	0.0011 U	0.0011 U	0.00097 U
N-Propylbenzene	3.9	100	0.0011 U	0.0011 U	0.00097 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0011 U	0.0011 U	0.00097 U
Sec-Butylbenzene	11	100	0.0011 U	0.0011 U	0.00097 U
Styrene	NS	NS	0.0011 U	0.0011 U	0.00097 U
T-Butylbenzene	5.9	100	0.0011 U	0.0011 U	0.00097 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.0011 U	0.00097 U
Tetrachloroethylene (PCE)	1.3	19	0.0079	0.00088 J	0.012
Toluene	0.7	100	0.0011 U	0.0011 U	0.00097 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.0011 U	0.00097 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.00097 U
Trichloroethylene (TCE)	0.47	21	0.0011 U	0.0011 U	0.00097 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.0011 U	0.00097 U
Xylenes, Total	0.26	100	0.0022 U	0.0021 U	0.0019 U

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213	SB-09_0-2_20241212
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3	460-317182-1
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.067 U	0.067 U	0.067 U	0.067 U
2,6-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.067 U	0.067 U	0.067 U	0.067 U
2-Chloronaphthalene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Chlorophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylnaphthalene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitrophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
3- And 4- Methylphenol (Total)	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
3-Nitroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitrophenol	NS	NS	0.72 U	0.72 U	0.67 U	0.67 U	0.67 U	0.67 U
Acenaphthene	20	100	0.35 U	0.021 J	0.33 U	0.33 U	0.33 U	0.33 U
Acenaphthylene	100	100	0.35 U	0.021 J	0.016 J	0.33 U	0.33 U	0.33 U
Acetophenone	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Anthracene	100	100	0.014 J	0.065 J	0.028 J	0.011 J	0.33 U	0.013 J
Atrazine	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
Benzaldehyde	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(a)Anthracene	**1**	1	0.081	0.32	0.17	0.074	0.033 U	0.091
Benzo(a)Pyrene	**1**	1	0.074	0.32	0.16	0.08	0.033 U	0.096
Benzo(b)Fluoranthene	**1**	1	0.097	0.41	0.21	0.11	0.033 U	0.13
Benzo(g,h,i)Perylene	100	100	0.06 J	0.2 J	0.12 J	0.059 J	0.33 U	0.067 J
Benzo(k)Fluoranthene	**0.8**	3.9	0.045	0.15	0.082	0.04	0.033 U	0.044
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.046 J	0.33 U	0.33 U	0.33 U	0.33 U
Caprolactam	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Carbazole	NS	NS	0.35 U	0.026 J	0.33 U	0.33 U	0.33 U	0.33 U
Chrysene	**1**	3.9	0.079 J	0.34 J	0.18 J	0.076 J	0.33 U	0.099 J
Dibenz(a,h)Anthracene	0.33	0.33	0.035 U	0.045	0.033	0.015 J	0.033 U	0.017 J
Dibenzofuran	7	59	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Diethyl Phthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Dimethyl Phthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.013 J	0.33 U	0.33 U	0.33 U	0.33 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Fluoranthene	100	100	0.14 J	0.61	0.23 J	0.11 J	0.33 U	0.15 J
Fluorene	30	100	0.35 U	0.017 J	0.33 U	0.33 U	0.33 U	0.33 U
Hexachlorobenzene	0.33	1.2	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
Hexachlorobutadiene	NS	NS	0.072 U	0.072 U	0.067 U	0.067 U	0.067 U	0.067 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Hexachloroethane	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.053	0.19	0.11	0.055	0.033 U	0.064
Isophorone	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
Naphthalene	12	100	0.35 U	0.009 J	0.33 U	0.33 U	0.33 U	0.33 U
Nitrobenzene	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Pentachlorophenol	0.8	6.7	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U
Phenanthrene	100	100	0.068 J	0.32 J	0.11 J	0.052 J	0.33 U	0.065 J
Phenol	0.33	100	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Pyrene	100	100	0.13 J	0.6	0.27 J	0.11 J	0.33 U	0.14 J

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212	SB-10_8-10_20241212	SB-11_0-2_20241212
		Laboratory Sample ID	460-317182-2	460-317182-3	460-317182-4	460-317182-5	460-317182-6	460-317182-7
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,5-Trichlorophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,6-Trichlorophenol	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dichlorophenol	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dimethylphenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4-Dinitrophenol	NS	NS	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.067 U	0.068 U	0.067 U	0.067 U
2,6-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.067 U	0.068 U	0.067 U	0.067 U
2-Chloronaphthalene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Chlorophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylnaphthalene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylphenol (O-Cresol)	0.33	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitrophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3- And 4- Methylphenol (Total)	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3,3'-Dichlorobenzidine	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
3-Nitroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloro-3-Methylphenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Methylphenol (P-Cresol)	0.33	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitrophenol	NS	NS	0.67 U	0.67 U	0.67 U	0.68 U	0.67 U	0.67 U
Acenaphthene	20	100	0.33 U	0.33 U	0.0097 J	0.0097 J	0.33 U	0.017 J
Acenaphthylene	100	100	0.33 U	0.33 U	0.012 J	0.051 J	0.33 U	0.33 U
Acetophenone	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Anthracene	100	100	0.33 U	0.33 U	0.034 J	0.086 J	0.33 U	0.028 J
Atrazine	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Benzaldehyde	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(a)Anthracene	**1**	1	0.033 U	0.033 U	0.19	0.61	0.033 U	0.075
Benzo(a)Pyrene	**1**	1	0.033 U	0.033 U	0.21	0.6	0.033 U	0.066
Benzo(b)Fluoranthene	**1**	1	0.033 U	0.033 U	0.25	0.67	0.033 U	0.092
Benzo(g,h,i)Perylene	100	100	0.33 U	0.33 U	0.12 J	0.39	0.33 U	0.039 J
Benzo(k)Fluoranthene	**0.8**	3.9	0.033 U	0.033 U	0.098	0.26	0.033 U	0.027 J
Benzyl Butyl Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Biphenyl (Diphenyl)	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Caprolactam	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Carbazole	NS	NS	0.33 U	0.33 U	0.014 J	0.014 J	0.33 U	0.013 J
Chrysene	**1**	3.9	0.33 U	0.33 U	0.2 J	0.61	0.33 U	0.087 J
Dibenz(a,h)Anthracene	0.33	0.33	0.033 U	0.033 U	0.032 J	0.097	0.033 U	0.033 U
Dibenzofuran	7	59	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Diethyl Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Dimethyl Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Di-N-Butyl Phthalate	NS	NS	0.33 U	0.33 U	0.024 J	0.33 U	0.33 U	0.33 U
Di-N-Octylphthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Fluoranthene	100	100	0.33 U	0.33 U	0.34	1	0.33 U	0.16 J
Fluorene	30	100	0.33 U	0.33 U	0.33 U	0.01 J	0.33 U	0.01 J
Hexachlorobenzene	0.33	1.2	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
Hexachlorobutadiene	NS	NS	0.067 U	0.067 U	0.067 U	0.068 U	0.067 U	0.067 U
Hexachlorocyclopentadiene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Hexachloroethane	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.033 U	0.033 U	0.12	0.36	0.033 U	0.036
Isophorone	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Naphthalene	12	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Nitrobenzene	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodi-N-Propylamine	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodiphenylamine	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Pentachlorophenol	0.8	6.7	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Phenanthrene	100	100	0.33 U	0.33 U	0.17 J	0.29 J	0.33 U	0.11 J
Phenol	0.33	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Pyrene	100	100	0.33 U	0.33 U	0.34	1.2	0.33 U	0.14 J

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211
		Laboratory Sample ID	460-317182-8	460-317182-9	460-317091-3	460-317091-4	460-317091-5	460-317091-10
		Date Sampled	12/12/2024	12/12/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2,4,5-Trichlorophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2,4,6-Trichlorophenol	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
2,4-Dichlorophenol	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
2,4-Dimethylphenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2,4-Dinitrophenol	NS	NS	0.27 U	0.27 U	0.28 U	0.27 U	0.27 U	0.3 U
2,4-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.07 U	0.068 U	0.069 U	0.076 U
2,6-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.07 U	0.068 U	0.069 U	0.076 U
2-Chloronaphthalene	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Chlorophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Methylnaphthalene	NS	NS	0.034 J	0.33 U	0.35 U	0.33 U	0.34 U	0.059 J
2-Methylphenol (O-Cresol)	0.33	100	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Nitroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Nitrophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
3- And 4- Methylphenol (Total)	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
3,3'-Dichlorobenzidine	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
3-Nitroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27 U	0.27 U	0.28 U	0.27 U	0.27 U	0.3 U
4-Bromophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Chloro-3-Methylphenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Chloroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Methylphenol (P-Cresol)	0.33	100	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Nitroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Nitrophenol	NS	NS	0.67 U	0.67 U	0.7 U	0.68 U	0.69 U	0.76 U
Acenaphthene	20	100	0.29 J	0.33 U	0.35 U	0.33 U	0.34 U	0.26 J
Acenaphthylene	100	100	0.021 J	0.33 U	0.01 J	0.33 U	0.34 U	0.11 J
Acetophenone	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Anthracene	100	100	0.35	0.33 U	0.019 J	0.33 U	0.34 U	0.9
Atrazine	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
Benzaldehyde	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Benzo(a)Anthracene	**1**	1	0.87	0.033 U	0.12	0.033 U	0.034 U	**2.5**
Benzo(a)Pyrene	**1**	1	0.84	0.033 U	0.13	0.033 U	0.034 U	**2.2**
Benzo(b)Fluoranthene	**1**	1	**1.1**	0.033 U	0.16	0.033 U	0.034 U	**2.9**
Benzo(g,h,i)Perylene	100	100	0.42	0.33 U	0.077 J	0.33 U	0.34 U	1.2
Benzo(k)Fluoranthene	**0.8**	3.9	0.42	0.033 U	0.06	0.033 U	0.034 U	**1.1**
Benzyl Butyl Phthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Biphenyl (Diphenyl)	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.021 J
Bis(2-Chloroethoxy) Methane	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.05 J	0.33 U	0.023 J	0.33 U	0.34 U	0.05 J
Caprolactam	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Carbazole	NS	NS	0.15 J	0.33 U	0.35 U	0.33 U	0.34 U	0.37 J
Chrysene	**1**	3.9	0.86	0.33 U	0.13 J	0.33 U	0.34 U	**2.4**
Dibenz(a,h)Anthracene	0.33	0.33	0.11	0.033 U	0.018 J	0.033 U	0.034 U	0.31
Dibenzofuran	7	59	0.094 J	0.33 U	0.35 U	0.33 U	0.34 U	0.15 J
Diethyl Phthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Dimethyl Phthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Di-N-Butyl Phthalate	NS	NS	0.017 J	0.33 U	0.35 U	0.038 J	0.013 J	0.046 J
Di-N-Octylphthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.6	0.19 J	0.38 U
Fluoranthene	100	100	2	0.33 U	0.22 J	0.33 U	0.34 U	5.5
Fluorene	30	100	0.17 J	0.33 U	0.35 U	0.33 U	0.34 U	0.23 J
Hexachlorobenzene	0.33	1.2	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
Hexachlorobutadiene	NS	NS	0.067 U	0.067 U	0.07 U	0.068 U	0.069 U	0.076 U
Hexachlorocyclopentadiene	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Hexachloroethane	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.41	0.033 U	0.077	0.033 U	0.034 U	**1.2**
Isophorone	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
Naphthalene	12	100	0.053 J	0.33 U	0.35 U	0.33 U	0.34 U	0.074 J
Nitrobenzene	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
N-Nitrosodi-N-Propylamine	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
N-Nitrosodiphenylamine	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Pentachlorophenol	0.8	6.7	0.27 U	0.27 U	0.28 U	0.27 U	0.27 U	0.3 U
Phenanthrene	100	100	1.6	0.33 U	0.1 J	0.33 U	0.017 J	4.3
Phenol	0.33	100	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Pyrene	100	100	1.7	0.33 U	0.21 J	0.33 U	0.013 J	4.7

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-13_2-4_20241211	SB-14_0-2_20241211	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-11	460-317091-8	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
2,4-Dichlorophenol	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
2,4-Dimethylphenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.29 U	0.28 U	0.28 U
2,4-Dinitrotoluene	NS	NS	0.074 U	0.074 U	0.072 U	0.071 U	0.069 U
2,6-Dinitrotoluene	NS	NS	0.074 U	0.074 U	0.072 U	0.071 U	0.069 U
2-Chloronaphthalene	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Chlorophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Methylnaphthalene	NS	NS	0.36 U	0.084 J	0.094 J	0.35 U	0.028 J
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Nitroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Nitrophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
3,3'-Dichlorobenzidine	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
3-Nitroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 U	0.29 U	0.28 U	0.28 U
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Chloroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Nitroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Nitrophenol	NS	NS	0.74 U	0.74 U	0.72 U	0.71 U	0.69 U
Acenaphthene	20	100	0.36 U	0.21 J	0.32 J	0.044 J	0.24 J
Acenaphthylene	100	100	0.36 U	0.18 J	0.27 J	0.023 J	0.13 J
Acetophenone	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Anthracene	100	100	0.02 J	0.93	1	0.089 J	0.47
Atrazine	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
Benzaldehyde	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Benzo(a)Anthracene	**1**	1	0.06	**1.9**	**2.8**	0.42	**1.7**
Benzo(a)Pyrene	**1**	1	0.044	**1.6**	**2.7**	0.44	**1.8**
Benzo(b)Fluoranthene	**1**	1	0.055	**2.2**	**3.8**	0.58	**2.5**
Benzo(g,h,i)Perylene	100	100	0.031 J	0.69	1.3	0.22 J	0.96
Benzo(k)Fluoranthene	**0.8**	3.9	0.025 J	**0.82**	**1.4**	0.22	**0.94**
Benzyl Butyl Phthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.36 U	0.026 J	0.028 J	0.35 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	0.8	0.24 J	0.35 U	0.34 U
Caprolactam	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Carbazole	NS	NS	0.36 U	0.29 J	0.43	0.034 J	0.23 J
Chrysene	**1**	3.9	0.053 J	**1.8**	**2.8**	0.41	**1.7**
Dibenz(a,h)Anthracene	0.33	0.33	0.036 U	0.19	0.32	0.051	0.23
Dibenzofuran	7	59	0.36 U	0.23 J	0.21 J	0.35 U	0.078 J
Diethyl Phthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Dimethyl Phthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	0.071 J	0.032 J	0.35 U	0.036 J
Di-N-Octylphthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Fluoranthene	100	100	0.11 J	4.3	5.9	0.77	3.5
Fluorene	30	100	0.36 U	0.28 J	0.31 J	0.025 J	0.16 J
Hexachlorobenzene	0.33	1.2	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
Hexachlorobutadiene	NS	NS	0.074 U	0.074 U	0.072 U	0.071 U	0.069 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Hexachloroethane	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.032 J	**0.77**	**1.4**	0.23	**1.1**
Isophorone	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
Naphthalene	12	100	0.36 U	0.069 J	0.12 J	0.0085 J	0.067 J
Nitrobenzene	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Pentachlorophenol	0.8	6.7	0.29 U	0.29 U	0.29 U	0.28 U	0.28 U
Phenanthrene	100	100	0.09 J	4.1	4.6	0.38	2
Phenol	0.33	100	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Pyrene	100	100	0.11 J	3.6	5.1	0.7	2.9

Table 5
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Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	5,950	5,770	8,140	2,730
Antimony	NS	NS	0.93 U	0.81 J	0.9 U	0.38 J	0.92 U
Arsenic	13	16	2.4	4.5	2.3	12.7	0.99
Barium	350	400	40.5	117	55.4	51.8	25.1
Beryllium	7.2	72	0.25 J	0.31 J	0.27 J	0.35 J	0.12 J
Cadmium	2.5	4.3	0.93 U	0.55 J	0.33 J	0.26 J	0.92 U
Calcium	NS	NS	6,550	4,010	24,400	2,100	1,380
Chromium, Total	NS	NS	12.1	16.2	10.7	14.4	3.1
Cobalt	NS	NS	4.7	5.7	3.9	5.6	0.75 J
Copper	**50**	270	18.2	**50.5**	23.4	**62.3**	5.3
Iron	NS	NS	10,800	17,100	9,120	15,700	11,100
Lead	**63**	400	57.4	**237**	44.3	62.5	1.7
Magnesium	NS	NS	3,950	3,410	5,300	2,370	422
Manganese	1,600	2,000	203	299	194	280	263
Mercury	**0.18**	0.81	0.062	0.084	0.043	0.064	0.016 U
Nickel	30	310	10.9	16.9	9.8	10.7	1.7 J
Potassium	NS	NS	968	741	800	636	896
Selenium	3.9	180	1.2 U	0.27 J	0.14 J	0.33 J	1.2 U
Silver	2	180	0.37 U	0.13 J	0.36 U	0.23 J	0.37 U
Sodium	NS	NS	88.9 J	90.8 J	192	65.9 J	256
Thallium	NS	NS	0.073 J	0.091 J	0.073 J	0.17 J	0.044 J
Vanadium	NS	NS	20.5	31.6	16	21.9	2.5
Zinc	**109**	10,000	50	**173**	63.5	48.5	44

Table 5
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Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212
		Laboratory Sample ID	460-317091-1	460-317182-1	460-317182-2	460-317182-3	460-317182-4
		Date Sampled	12/11/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	6,190	3,520	1,980	5,680
Antimony	NS	NS	0.93 U	0.83 U	0.89 U	0.88 U	0.17 J
Arsenic	13	16	2.4	3.4	0.82 J	0.36 J	2.2
Barium	350	400	40.5	38.7	23.8	12.2	53.9
Beryllium	7.2	72	0.25 J	0.22 J	0.19 J	0.12 J	0.26 J
Cadmium	2.5	4.3	0.93 U	0.12 J	0.89 U	0.88 U	0.2 J
Calcium	NS	NS	6,550	20,300	783	18,800	5,860
Chromium, Total	NS	NS	12.1	11.4	6.9	4	14.6
Cobalt	NS	NS	4.7	5.5	3.2	1.7 J	4.9
Copper	**50**	270	18.2	18.2	12.3	4.3	23.6
Iron	NS	NS	10,800	11,700	7,520	3,700	11,400
Lead	**63**	400	57.4	44.7	4.9	1.2	**379**
Magnesium	NS	NS	3,950	4,060	1,720	9,170	5,110
Manganese	1,600	2,000	203	178	184	129	255
Mercury	**0.18**	0.81	0.062	0.059	0.015 U	0.016 U	0.067
Nickel	30	310	10.9	14.7	7.2	3.5	12.9
Potassium	NS	NS	968	853	549	316	1,090
Selenium	3.9	180	1.2 U	0.11 J	1.1 U	1.1 U	0.2 J
Silver	2	180	0.37 U	0.33 U	0.36 U	0.35 U	0.39 U
Sodium	NS	NS	88.9 J	521	234	152	371
Thallium	NS	NS	0.073 J	0.059 J	0.039 J	0.35 U	0.086 J
Vanadium	NS	NS	20.5	15.3	8.5	5	19.5
Zinc	**109**	10,000	50	43.8	16.6	10	62.8

Table 5
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Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-10_2-4_20241212	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212
		Laboratory Sample ID	460-317091-1	460-317182-5	460-317182-6	460-317182-7	460-317182-8
		Date Sampled	12/11/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	3,470	7,110	7,140	7,800
Antimony	NS	NS	0.93 U	0.9 U	0.89 U	0.9 U	0.93 U
Arsenic	13	16	2.4	0.95	1.9	1.8	10
Barium	350	400	40.5	31.4	41	30.6	62.9
Beryllium	7.2	72	0.25 J	0.15 J	0.31 J	0.24 J	0.33 J
Cadmium	2.5	4.3	0.93 U	0.9 U	0.89 U	0.9 U	0.33 J
Calcium	NS	NS	6,550	1,240	12,900	10,000	2,070
Chromium, Total	NS	NS	12.1	9.7	25	12.2	24.5
Cobalt	NS	NS	4.7	3.1	6.6	6.1	8
Copper	**50**	270	18.2	13.4	45.5	16.6	**52.8**
Iron	NS	NS	10,800	6,230	18,000	11,300	15,300
Lead	**63**	400	57.4	23.9	3.4	10.5	**94.5**
Magnesium	NS	NS	3,950	1,820	6,260	3,730	3,730
Manganese	1,600	2,000	203	155	309	213	353
Mercury	**0.18**	0.81	0.062	0.049	0.016 U	0.054	0.1
Nickel	30	310	10.9	7.9	15.2	15.4	19.8
Potassium	NS	NS	968	585	771	810	1,140
Selenium	3.9	180	1.2 U	1.1 U	1.1 U	1.1 U	0.2 J
Silver	2	180	0.37 U	0.36 U	0.36 U	0.36 U	0.089 J
Sodium	NS	NS	88.9 J	249	862	308	289
Thallium	NS	NS	0.073 J	0.048 J	0.068 J	0.063 J	0.12 J
Vanadium	NS	NS	20.5	10.8	44.5	25.4	32
Zinc	**109**	10,000	50	39.3	30.4	27.1	**136**

Table 5
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Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-11_4-6_20241212	SB-12_0-2_20241211	SB-12_8-10_20241211	SB-12_10-12_20241211
		Laboratory Sample ID	460-317091-1	460-317182-9	460-317091-3	460-317091-4	460-317091-5
		Date Sampled	12/11/2024	12/12/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	4,200	6,270	4,420	3,880
Antimony	NS	NS	0.93 U	0.85 U	1 U	0.97 U	0.88 U
Arsenic	13	16	2.4	0.88	3.3	4.2	0.81 J
Barium	350	400	40.5	35.3	68.1	29.8	24.9
Beryllium	7.2	72	0.25 J	0.17 J	0.28 J	0.39	0.15 J
Cadmium	2.5	4.3	0.93 U	0.85 U	0.2 J	0.12 J	0.88 U
Calcium	NS	NS	6,550	1,530	8,180	6,330	7,100
Chromium, Total	NS	NS	12.1	9.7	12.8	8.7	8.3
Cobalt	NS	NS	4.7	3.8	4.1	4	3.6
Copper	**50**	270	18.2	16.4	20.4	13.1	17.4
Iron	NS	NS	10,800	8,180	9,960	8,470	7,990
Lead	**63**	400	57.4	3	**109**	4.3	4.6
Magnesium	NS	NS	3,950	2,290	4,210	4,930	5,350
Manganese	1,600	2,000	203	224	177	219	164
Mercury	**0.18**	0.81	0.062	0.016 U	0.024	0.016 U	0.025
Nickel	30	310	10.9	9.1	11	7.5	7.4
Potassium	NS	NS	968	578	716	1,100	1,010
Selenium	3.9	180	1.2 U	1.1 U	0.24 J	0.16 J	1.1 U
Silver	2	180	0.37 U	0.34 U	0.4 U	0.39 U	0.35 U
Sodium	NS	NS	88.9 J	188	149	181	166
Thallium	NS	NS	0.073 J	0.053 J	0.077 J	0.075 J	0.061 J
Vanadium	NS	NS	20.5	12.9	21.7	12	14.2
Zinc	**109**	10,000	50	17	74.3	29.8	21.6

Table 5
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211	SB-14_2-4_20241211
		Laboratory Sample ID	460-317091-1	460-317091-10	460-317091-11	460-317091-8	460-317091-9
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	6,520	8,030	4,700	5,890
Antimony	NS	NS	0.93 U	0.16 J	0.89 U	0.91 U	0.19 J
Arsenic	13	16	2.4	7.2	2.7	3.5	3.5
Barium	350	400	40.5	47.9	26.2	56	57.8
Beryllium	7.2	72	0.25 J	0.28 J	0.27 J	0.22 J	0.28 J
Cadmium	2.5	4.3	0.93 U	0.15 J	0.89 U	0.31 J	0.33 J
Calcium	NS	NS	6,550	15,400	889	4,600	5,860
Chromium, Total	NS	NS	12.1	10.7	14.9	15.9	15.1
Cobalt	NS	NS	4.7	4.2	4.9	4.6	5.8
Copper	**50**	270	18.2	30.6	15.4	25.5	41.2
Iron	NS	NS	10,800	12,000	11,300	9,250	10,900
Lead	**63**	400	57.4	41.8	6.2	**72**	**131**
Magnesium	NS	NS	3,950	4,760	2,280	4,030	3,870
Manganese	1,600	2,000	203	169	210	443	270
Mercury	**0.18**	0.81	0.062	**0.27**	0.018 U	0.079	0.11
Nickel	30	310	10.9	10.3	11.3	11.4	12.9
Potassium	NS	NS	968	580	875	746	878
Selenium	3.9	180	1.2 U	0.2 J	0.12 J	0.16 J	0.2 J
Silver	2	180	0.37 U	0.091 J	0.36 U	0.084 J	0.3 J
Sodium	NS	NS	88.9 J	67.2 J	81 J	103	151
Thallium	NS	NS	0.073 J	0.081 J	0.087 J	0.13 J	0.095 J
Vanadium	NS	NS	20.5	17.4	17.5	41.4	18.1
Zinc	**109**	10,000	50	50.2	23.8	59.2	87.7

Table 5
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Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-1	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	5,480	5,720
Antimony	NS	NS	0.93 U	0.93 U	0.18 J
Arsenic	13	16	2.4	2.7	3.3
Barium	350	400	40.5	43.5	57.8
Beryllium	7.2	72	0.25 J	0.25 J	0.27 J
Cadmium	2.5	4.3	0.93 U	0.2 J	0.25 J
Calcium	NS	NS	6,550	4,540	3,950
Chromium, Total	NS	NS	12.1	17	13.8
Cobalt	NS	NS	4.7	4.7	4.8
Copper	**50**	270	18.2	21.9	29.1
Iron	NS	NS	10,800	9,580	10,900
Lead	**63**	400	57.4	49.6	**90**
Magnesium	NS	NS	3,950	3,290	3,120
Manganese	1,600	2,000	203	206	239
Mercury	**0.18**	0.81	0.062	0.049	0.043
Nickel	30	310	10.9	12.2	12
Potassium	NS	NS	968	890	871
Selenium	3.9	180	1.2 U	1.2 U	0.17 J
Silver	2	180	0.37 U	0.37 U	0.087 J
Sodium	NS	NS	88.9 J	165	184
Thallium	NS	NS	0.073 J	0.067 J	0.08 J
Vanadium	NS	NS	20.5	16.2	19.5
Zinc	**109**	10,000	50	55	**126**

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1221 (Aroclor 1221)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1232 (Aroclor 1232)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1242 (Aroclor 1242)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1248 (Aroclor 1248)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1254 (Aroclor 1254)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1260 (Aroclor 1260)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1262 (Aroclor 1262)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1268 (Aroclor 1268)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
Total PCBs	0.1	1	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212
		Laboratory Sample ID	460-317182-1	460-317182-2	460-317182-3	460-317182-4	460-317182-5
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1221 (Aroclor 1221)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1232 (Aroclor 1232)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1242 (Aroclor 1242)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1248 (Aroclor 1248)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1254 (Aroclor 1254)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1260 (Aroclor 1260)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1262 (Aroclor 1262)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1268 (Aroclor 1268)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
Total PCBs	0.1	1	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211
		Laboratory Sample ID	460-317182-6	460-317182-7	460-317182-8	460-317182-9	460-317091-3
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1221 (Aroclor 1221)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1232 (Aroclor 1232)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1242 (Aroclor 1242)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1248 (Aroclor 1248)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1254 (Aroclor 1254)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1260 (Aroclor 1260)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1262 (Aroclor 1262)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1268 (Aroclor 1268)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
Total PCBs	0.1	1	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211
		Laboratory Sample ID	460-317091-4	460-317091-5	460-317091-10	460-317091-11	460-317091-8
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1221 (Aroclor 1221)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1232 (Aroclor 1232)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1242 (Aroclor 1242)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1248 (Aroclor 1248)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1254 (Aroclor 1254)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1260 (Aroclor 1260)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1262 (Aroclor 1262)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1268 (Aroclor 1268)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
Total PCBs	0.1	1	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1221 (Aroclor 1221)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1232 (Aroclor 1232)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1242 (Aroclor 1242)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1248 (Aroclor 1248)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1254 (Aroclor 1254)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1260 (Aroclor 1260)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1262 (Aroclor 1262)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1268 (Aroclor 1268)	NS	NS	0.072 U	0.071 U	0.069 U
Total PCBs	0.1	1	0.072 U	0.071 U	0.069 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Alpha Endosulfan	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Beta Endosulfan	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
cis-Chlordane	0.094	4.2	0.0071 U	0.0072 U	0.021	0.0067 U	0.0067 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Dieldrin	0.005	0.2	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Endosulfan Sulfate	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Endrin Aldehyde	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Endrin Ketone	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Gamma Bhc (Lindane)	0.1	1.3	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Heptachlor	0.042	2.1	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Heptachlor Epoxide	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Methoxychlor	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDD	0.0033	13	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDE	**0.0033**	8.9	0.0071 U	0.0072 U	**0.0036 J**	0.0067 U	0.0067 U
P,P'-DDT	**0.0033**	7.9	0.0071 U	0.0072 U	**0.0084**	0.0067 U	0.0067 U
Toxaphene	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212
		Laboratory Sample ID	460-317182-1	460-317182-2	460-317182-3	460-317182-4	460-317182-5
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Alpha Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Beta Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
cis-Chlordane	0.094	4.2	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Dieldrin	0.005	0.2	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Endosulfan Sulfate	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Endrin Aldehyde	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Endrin Ketone	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Gamma Bhc (Lindane)	0.1	1.3	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Heptachlor	0.042	2.1	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Heptachlor Epoxide	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Methoxychlor	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDD	0.0033	13	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDE	**0.0033**	8.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDT	**0.0033**	7.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Toxaphene	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211
		Laboratory Sample ID	460-317182-6	460-317182-7	460-317182-8	460-317182-9	460-317091-3
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Alpha Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Beta Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
cis-Chlordane	0.094	4.2	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Dieldrin	0.005	0.2	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Endosulfan Sulfate	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Endrin Aldehyde	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Endrin Ketone	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Gamma Bhc (Lindane)	0.1	1.3	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Heptachlor	0.042	2.1	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Heptachlor Epoxide	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Methoxychlor	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
P,P'-DDD	0.0033	13	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
P,P'-DDE	**0.0033**	8.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
P,P'-DDT	**0.0033**	7.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Toxaphene	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211
		Laboratory Sample ID	460-317091-4	460-317091-5	460-317091-10	460-317091-11	460-317091-8
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Alpha Endosulfan	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Beta Endosulfan	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
cis-Chlordane	0.094	4.2	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Dieldrin	0.005	0.2	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Endosulfan Sulfate	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Endrin Aldehyde	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Endrin Ketone	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Gamma Bhc (Lindane)	0.1	1.3	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Heptachlor	0.042	2.1	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Heptachlor Epoxide	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Methoxychlor	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
P,P'-DDD	0.0033	13	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
P,P'-DDE	**0.0033**	8.9	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
P,P'-DDT	**0.0033**	7.9	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Toxaphene	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0072 U	0.0071 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.0022 U	0.0021 U	0.0021 U
Alpha Endosulfan	NS	NS	0.0072 U	0.0071 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.0022 U	0.0021 U	0.0021 U
Beta Endosulfan	NS	NS	0.0072 U	0.0071 U	0.0069 U
cis-Chlordane	0.094	4.2	0.0072 U	0.0071 U	0.0035 JP
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022 U	0.0021 U	0.0021 U
Dieldrin	0.005	0.2	0.0022 U	0.0021 U	0.0021 U
Endosulfan Sulfate	NS	NS	0.0072 U	0.0071 U	0.0069 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U
Endrin	0.014	11	0.0072 U	0.0071 U	0.0069 U
Endrin Aldehyde	NS	NS	0.0072 U	0.0071 U	0.0069 U
Endrin Ketone	NS	NS	0.0072 U	0.0071 U	0.0069 U
Gamma Bhc (Lindane)	0.1	1.3	0.0022 U	0.0021 U	0.0021 U
Heptachlor	0.042	2.1	0.0072 U	0.0071 U	0.0069 U
Heptachlor Epoxide	NS	NS	0.0072 U	0.0071 U	0.0069 U
Methoxychlor	NS	NS	0.0072 U	0.0071 U	0.0069 U
P,P'-DDD	0.0033	13	0.0072 U	0.0071 U	0.0069 U
P,P'-DDE	**0.0033**	8.9	0.0072 U	0.0071 U	0.0069 U
P,P'-DDT	**0.0033**	7.9	0.0072 U	0.0071 U	0.0022 J
Toxaphene	NS	NS	0.072 U	0.071 U	0.069 U

Table 8
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

			AKRF Sample ID	SB-08_0-2_20241213
			Laboratory Sample ID	460-317268-1
			Date Sampled	12/13/2024
			Dilution Factor	1
			Unit	ppb
Compound	**NYSDEC UUGV**	**NYSDEC RRGV**	CONC	Q
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	NS	NS	0.73	U
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	NS	NS	0.73	U
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	NS	NS	0.73	U
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	NS	NS	0.73	U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NS	NS	4.55	U
3-Perfluoropentylpropanoic acid (5:3 FTCA)	NS	NS	4.55	U
3-Perfluoropropylpropanoic acid (3:3 FTCA)	NS	NS	0.91	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.73	U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	NS	NS	0.73	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	NS	NS	0.73	U
N-ethylperfluorooctane sulfonamide (NEtFOSA)	NS	NS	0.18	U
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	NS	NS	1.82	U
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NS	NS	0.18	U
N-methylperfluorooctane sulfonamide (NMeFOSA)	NS	NS	0.18	U
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	NS	NS	1.82	U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NS	NS	0.18	U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NS	NS	0.36	U
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	NS	NS	0.36	UT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NS	NS	0.36	U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NS	NS	0.36	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.18	U
Perfluorobutanoic acid (PFBA)	NS	NS	0.73	U
Perfluorodecanesulfonic acid (PFDS)	NS	NS	0.18	U
Perfluorodecanoic acid (PFDA)	NS	NS	0.18	U
Perfluorododecanesulfonic acid (PFDoS)	NS	NS	0.18	U
Perfluorododecanoic acid (PFDoA)	NS	NS	0.18	U
Perfluoroheptanesulfonic acid (PFHpS)	NS	NS	0.18	U
Perfluoroheptanoic acid (PFHpA)	NS	NS	0.18	U
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	0.18	U
Perfluorohexanoic acid (PFHxA)	NS	NS	0.18	U
Perfluorononanesulfonic acid (PFNS)	NS	NS	0.18	U
Perfluorononanoic acid (PFNA)	NS	NS	0.11	J
Perfluorooctanesulfonamide (PFOSA)	NS	NS	0.18	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**2.17**	**T**
Perfluorooctanoic acid (PFOA)	0.66	33	0.18	U
Perfluoropentanesulfonic acid (PFPeS)	NS	NS	0.18	U
Perfluoropentanoic acid (PFPeA)	NS	NS	0.36	U
Perfluorotetradecanoic acid (PFTeDA)	NS	NS	0.18	U
Perfluorotridecanoic acid (PFTrDA)	NS	NS	0.18	U
Perfluoroundecanoic acid (PFUnA)	NS	NS	0.18	U

Table 9
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of VOCs

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212	TB-01_20241211	TB-01_20241213
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3	460-317091-12	460-317271-4
Date Sampled		12/13/2024	12/12/2024	12/12/2024	12/11/2024	12/13/2024
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	0.35 J	1 U	0.34 J	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	60	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U
Chloroform	7	2.9	3.9	1.7	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	3.2	4.7	1 U	1 U
Cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NS	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	0.48 J	1 U	0.47 J	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	1 U
M,P-Xylenes	5	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	NS	5 U	5 U	5 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 UT	5 U
Methylcyclohexane	NS	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U
N-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
N-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	1 U	1 U	1 U	1 U	1 U
Sec-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U
T-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	10	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene (PCE)	**5**	**60**	**270**	**310**	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1.5	2.5	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2 U	2 U	2 U	2 U	2 U

Table 10
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	TW-08_20241213	TW-09_20241212	TW-10_20241212
	Laboratory Sample ID	460-317271-1	460-317271-2	460-317271-3
	Date Sampled	12/13/2024	12/12/2024	12/12/2024
	Unit	µg/L	µg/L	µg/L
	Dilution Factor	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	0.1 J	0.2 U	0.13 J
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U
2,4-Dinitrophenol	10	40 U	40 U	40 U
2,4-Dinitrotoluene	5	10 U	10 U	10 U
2,6-Dinitrotoluene	5	2 U	2 U	2 U
2-Chloronaphthalene	10	10 U	10 U	10 U
2-Chlorophenol	NS	10 U	10 U	10 U
2-Methylnaphthalene	NS	10 U	10 U	10 U
2-Methylphenol (O-Cresol)	NS	10 U	10 U	10 U
2-Nitroaniline	5	10 U	10 U	10 U
2-Nitrophenol	NS	10 U	10 U	10 U
3- And 4- Methylphenol (Total)	NS	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	10 U
3-Nitroaniline	5	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	10 U	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 U	10 U
4-Chloroaniline	5	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U	10 U
4-Methylphenol (P-Cresol)	NS	10 U	10 U	10 U
4-Nitroaniline	5	10 U	10 U	10 U
4-Nitrophenol	NS	20 U	20 U	20 U
Acenaphthene	20	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U
Acetophenone	NS	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U
Atrazine	7.5	2 U	2 U	2 U
Benzaldehyde	NS	10 U	10 U	10 U
Benzo(a)Anthracene	0.002	1 U	1 U	1 U
Benzo(a)Pyrene	ND	1 U	1 U	1 U
Benzo(b)Fluoranthene	0.002	2 U	2 U	2 U
Benzo(g,h,i)Perylene	NS	10 U	10 U	10 U
Benzo(k)Fluoranthene	0.002	1 U	1 U	1 U
Benzyl Butyl Phthalate	50	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	10 U	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1 U	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	2 U	2 U	2 U
Caprolactam	NS	18	21	16
Carbazole	NS	10 U	10 U	10 U
Chrysene	0.002	2 U	2 U	2 U
Dibenz(a,h)Anthracene	NS	1 U	1 U	1 U
Dibenzofuran	NS	10 U	10 U	10 U
Diethyl Phthalate	50	10 U	10 U	10 U
Dimethyl Phthalate	50	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	8.9 J	6.5 J	4.4 J
Di-N-Octylphthalate	50	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	1 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U
Hexachlorocyclopentadiene	5	10 U	10 U	10 U
Hexachloroethane	5	2 U	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	0.002	2 U	2 U	2 U
Isophorone	50	10 U	10 U	10 U
Naphthalene	10	2 U	2 U	2 U
Nitrobenzene	0.4	1 U	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	10 U	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	20 U
Phenanthrene	50	10 U	10 U	10 U
Phenol	1	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U

Table 11
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of Total Metals

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
Aluminum	NS	98,100	311,000	134,000
Antimony	3	0.69 J	2.2 J	0.71 J
Arsenic	**25**	23	**73.3**	**28.6**
Barium	**1,000**	**1,620**	**4,580**	**1,700**
Beryllium	**3**	**4.6**	**14**	**6.6**
Cadmium	5	1.9 J	4	2.9
Calcium	NS	532,000	585,000	780,000
Chromium, Total	**50**	**303**	**1,350**	**429**
Cobalt	NS	162	311	175
Copper	**200**	**319**	**1,000**	**419**
Iron	**300**	**185,000**	**667,000**	**292,000**
Lead	**25**	**88.4**	**707**	**113**
Magnesium	**35,000**	**164,000**	**370,000**	**295,000**
Manganese	**300**	**9,530**	**18,400**	**7,990**
Mercury	**0.7**	0.35	**1.1**	0.11 J
Nickel	**100**	**270**	**814**	**303**
Potassium	NS	34,900	111,000	40,300
Selenium	10	2.5	4 J	2.6
Silver	50	2 U	4 U	2 U
Sodium	**20,000**	**82,900**	**122,000**	**123,000**
Thallium	**0.5**	**0.61 J**	**1.6**	**0.75 J**
Vanadium	NS	304	913	427
Zinc	**2,000**	596	**2,040**	826

Table 12
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of Dissolved Metals

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
Aluminum	NS	40 U	29.7 J	40 U
Antimony	3	2 U	2 U	2 U
Arsenic	25	2 U	2 U	2 U
Barium	1,000	57.6	62.9	65.3
Beryllium	3	0.8 U	0.8 U	0.8 U
Cadmium	5	2 U	2 U	2 U
Calcium	NS	57,900	92,700	47,500
Chromium, Total	50	4 U	4 U	4 U
Cobalt	NS	2.4 J	4.8	1.5 J
Copper	200	4.6	2.6 J	5.1
Iron	300	120 U	69.7 J	120 U
Lead	25	1.2 U	1.2 U	1.2 U
Magnesium	35,000	22,700	33,900	11,000
Manganese	**300**	69	**412**	44.9
Mercury	0.7	0.2 U	0.2 U	0.2 U
Nickel	100	1.7 J	4.8	3.1 J
Potassium	NS	5,100	4,910	4,780
Selenium	10	1.6 J	2.2 J	1.3 J
Silver	50	2 U	2 U	2 U
Sodium	**20,000**	**87,500**	**134,000**	**97,700**
Thallium	0.5	0.8 U	0.8 U	0.8 U
Vanadium	NS	4 U	4 U	4 U
Zinc	2,000	16 U	16 U	11.3 J

Table 13
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of PCBs

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	0.4 U	0.4 U	0.4 U
PCB-1221 (Aroclor 1221)	NS	0.4 U	0.4 U	0.4 U
PCB-1232 (Aroclor 1232)	NS	0.4 U	0.4 U	0.4 U
PCB-1242 (Aroclor 1242)	NS	0.4 U	0.4 U	0.4 U
PCB-1248 (Aroclor 1248)	NS	0.4 U	0.4 U	0.4 U
PCB-1254 (Aroclor 1254)	NS	0.4 U	0.4 U	0.4 U
PCB-1260 (Aroclor 1260)	NS	0.4 U	0.4 U	0.4 U
PCB-1262 (Aroclor 1262)	NS	0.4 U	0.4 U	0.4 U
PCB-1268 (Aroclor 1268)	NS	0.4 U	0.4 U	0.4 U
Total PCBs	0.09	0.4 U	0.4 U	0.4 U

Table 14
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of Pesticides

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
Aldrin	ND	0.02 U	0.02 U	0.02 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02 U	0.02 U	0.02 U
Alpha Endosulfan	NS	0.02 U	0.02 U	0.02 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U
Beta Endosulfan	NS	0.02 U	0.02 U	0.02 U
cis-Chlordane	NS	0.02 U	0.02 U	0.02 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.02 U	0.02 U	0.02 U
Endosulfan Sulfate	NS	0.02 U	0.02 U	0.02 U
Endosulfans ABS	NS	0 U	0 U	0 U
Endrin	ND	0.02 U	0.02 U	0.02 U
Endrin Aldehyde	5	0.02 U	0.02 U	0.02 U
Endrin Ketone	5	0.02 U	0.02 U	0.02 U
Gamma Bhc (Lindane)	0.05	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U
Heptachlor Epoxide	0.03	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.02 U	0.02 U	0.02 U
P,P'-DDD	0.3	0.02 U	0.02 U	0.02 U
P,P'-DDE	0.2	0.02 U	0.02 U	0.02 U
P,P'-DDT	0.2	0.02 U	0.02 U	0.02 U
Toxaphene	0.06	0.5 U	0.5 U	0.5 U

Table 15
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	SV-06_20241213	SV-07_20241213	SV-11_20241213
Laboratory Sample ID	200-76306-1	200-76306-2	200-76306-3
Date Sampled	12/13/2024	12/13/2024	12/13/2024
Unit	µg/m^3	µg/m^3	µg/m^3
Dilution Factor	10	10	10
Compound	CONC Q	CONC Q	CONC Q
1,3-Butadiene	13	5.6	4.4 U
2,2,4-Trimethylpentane	2.3 J	3.5 J	9.3 U
Acetone	54 J	78 J	120 U
Benzene	5 J	3.7 J	6.4 U
Butane	45	66	12 U
Carbon Disulfide	21	12 J	16 U
Chloroform	9.8 U	9.8 U	3.1 J
Cis-1,2-Dichloroethylene	2 U	2 U	7.9
Cyclohexane	5.9 J	13	6.9 U
Methyl Ethyl Ketone (2-Butanone)	14 J	18	15 U
N-Heptane	3.6 J	9.4	8.2 U
N-Hexane	11 J	25	18 U
Styrene	8.5 U	8.5 U	3.1 J
Tetrachloroethylene (PCE)	14 U	1.4 J	25
Toluene	5.5 J	2.6 J	7.5 U
Trichloroethylene (TCE)	2 U	2 U	4.4

Tables 3-15
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Notes

DEFINITIONS

J	:	The concentration given is an estimated value.
ND	:	The standard is a non-detectable concentration by the approved analytical method.
NS	:	No standard.
P	:	Indicates a pesticide/aroclor target analyte had a percent difference greater than 25% between the two gc columns. The lower of the two results is reported.
T	:	Indicates that a quality control parameter has exceeded laboratory limits.
U	:	The analyte was not detected at the indicated concentration.
mg/kg	:	milligrams per kilogram
ppb	:	parts per billion
µg/L	:	micrograms per liter
µg/m^3	:	micrograms per cubic meter of air

STANDARDS

Part 375 Soil Cleanup Objectives	:	Soil Cleanup Objectives listed in New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations [6 New York Codes, Rules and Regulations (NYCRR) Part 375].

Note: Endosulfans ABS represents the detected sum of Endosulfan I, Endosulfan II, and Endosulfan Sulfate.

Exceedances of Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray shading.

NYSDEC Class GA AWQSGVs	:	New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

APPENDIX A
PREVIOUS REPORTS

APPENDIX B
GEOPHYSICAL REPORT

Coastal Environmental Solutions, Inc.

GEOPHYSICAL INVESTIGATION REPORT

31-07 31st Street, Astoria, NY
Date of Investigation: 12/11/2024

Prepared for:

AKRF, Inc.
440 Park Avenue South
New York, New York 10016

Prepared By:

Dennis Berthold
Director of Geophysical Operations
Coastal Environmental Solutions, Inc.
PO Box 342
Medford, New York 11763

1.0 INTRODUCTION

On 12/11/2024, Coastal Environmental Solutions, Inc (Coastal) personnel performed a limited Geophysical Investigation at the site located at 31-07 31st Street, Astoria, NY. The areas of interest include multiple locations across the asphalt parking lot as indicated by the client. Surface conditions consisted of asphalt.

2.0 SCOPE OF WORK

1. Locate and mark detectable underground utilities and other subsurface anomalies in close proximity to client proposed soil boring locations.

3.0 EQUIPMENT

ImpulseRadar PinPointR Ultra-Wide Band (UWB) Penetrating Radar System

Ground Penetrating RADAR (GPR) is a non-destructive geophysical method that produces a continuous cross-sectional profile of subsurface features in real time. GPR operates by transmitting both high and low frequency electromagnetic wave pulses down into the ground through a transmitter in the antenna. The transmitted electromagnetic waves reflect off materials with contrasting dielectric properties from surrounding medium such as underground storage tanks, utilities, distinct contacts between different earth materials, and other various subsurface objects. The antenna receiver collects the reflected electromagnetic waves which are then interpreted by the operator.

The ImpulseRadar PinPointR UWB GPR utilizes a dual band 400/800 MHz HS antenna mounted to a stroller frame which rolls over the surface. The total depth of penetration achieved with the antenna can be up to 10 feet but widely varies based on site-specific subsurface conditions. Conductive materials in the soil attenuate the GPR signal causing a decrease in effective depth of penetration and clarity.

Vivax-Metrotech vLoc3-Pro Receiver/Transmitter

The vLoc3-Pro Receiver is a hand-operated antenna capable of detecting electromagnetic (EM) fields emitted from a source. The EM antenna can detect pipes and cables in the ground at depths of up to 20 feet using active or passive tracing techniques. Passive tracing is the act of locating an underground utility through the detection of electrical or radio signals travelling along conductive utilities. Active tracing is used in conjunction with the Transmitter that is directly connected to the target utility or to a conductive rodder within a non-conductive line. A signal is sent through the utility at a specific frequency that can be detected by the Receiver. The detectability of a target utility depends on many factors including access to the target utility, grounding, depth of utility, conductivity, and other site-specific factors.

TW-6 Pipe and Cable Locator

The TW-6 Pipe and Cable locator is a handheld magnetometer which utilizes a transmitter-receiver pair attached to opposite ends of a handle and carried approximately 1-2ft from the surface. The magnetometer induces an electromagnetic (EM) field into the ground that is generated by the transmitter. Once the induced EM field passes through a buried metallic object, it generates a

secondary EM field which is detected by the receiver, generating an audible tone. Based on the calibration of the magnetometer, the audible tone reflects the strongest response as the highest pitched sound, trailing off on all sides of the peak. This piece of technology can be used to detect subsurface features such as metallic USTs, large diameter conductive pipes, and buried manholes, especially in areas in which traditional GPR methods cannot be utilized, such as overgrown or uneven surfaces.

4.0 METHODOLOGY

1. A subsurface investigation was performed in close proximity to the client proposed soil boring locations. Active and passive detection methods were utilized with the VLoc3-Pro receiver/transmitter. Coastal personnel direct connected to all accessible and traceable pipes, conduits, valve covers, and any other surface feature throughout the site. A passive scan was performed throughout the site to detect any potential underground utilities that could not be located with active scan.
2. The TW-6 was utilized (if applicable) to sweep any accessible areas for suspected UST locations in 3-to-5-foot spacings for readings that may represent a buried metallic anomaly. Upon detection of a reading, the approximate size and shape of the anomalous area was marked on the surface to be investigated further with GPR.
3. GPR was utilized to further characterize the approximate dimensions, depth, and shape of the anomalies located with the TW-6. The remainder of the areas around suspected detections were scanned with GPR in 3-to-5-foot spacing to locate any anomalous features not previously detected such as non-conductive piping and former excavations.
4. All findings were marked on the surface utilizing the American Public Works Association (APWA) recommended color code, seen below:

WHITE	Proposed Excavation
PINK	Temporary Survey Markings (Approximate UST Locations, Soil Boring Locations)
RED	Electric Power Lines, Cables, Conduit and Lighting Cables
YELLOW	Gas, Oil, Steam, Petroleum or Gaseous Materials
ORANGE	Communication, Alarm or Signal Lines, Cables or Conduit
BLUE	Water (Domestic and Fire Lines)
PURPLE	Irrigation, Slurry Lines, Reclaimed Water
GREEN	Sewers and Drain Lines

5.0 SUMMARY OF FINDINGS

Subsurface Investigation

Coastal personnel conducted a subsurface investigation on all accessible locations within the areas of concern. The site was first investigated with AKRF and Coastal personnel to identify the limit of the scope of work and identify any surface features identifying utilities. Upon visual inspection of the site, a large portion of the center of the parking lot was occupied by materials and equipment staged by another contractor working in the adjacent roadway. Coastal investigated the site for any surface and subsurface features related to utilities and after a thorough search with GPR and EM antennas, multiple features were detected. Multiple shallow electrical lines were located and

marked leading to the site lighting and parking meters within the lot. Also identified was a series of interconnected storm drains and a partially marked unknown line. Coastal proceeded to clear the proposed boring locations prior to drilling activities.

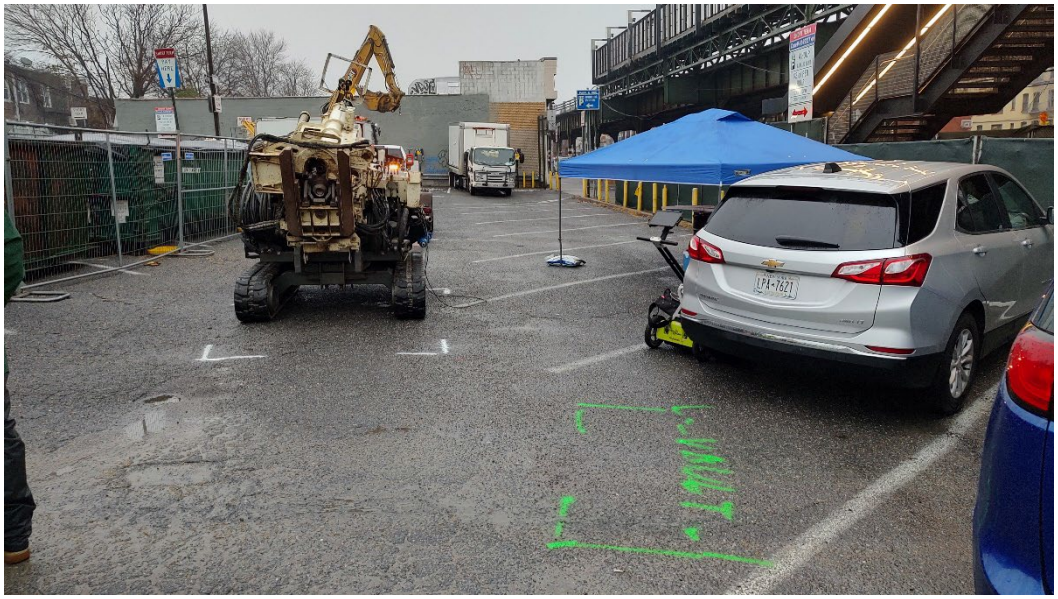
Limitations

The effective depth of GPR penetration was limited to 4.5 feet beneath the asphalt surface. The limiting factor was likely due to soil conductivity attenuating the GPR signal. The GPR and TW-6 is unable to be utilized within close proximity to parked vehicles, metallic fences and exterior walls. The fenced off area in the center of the lot as well as the areas beneath the staged equipment were not able to be fully investigated with GPR, which may have blocked access to additional significant findings.

Disclaimer

The subsurface investigation was performed by Coastal after considering the limits of the scope of work and the time constraint for the investigation. The investigation that is described in this report was undertaken in accordance with current accepted standards and practices of the geophysical survey industry. The results and interpretations that are presented are based on professional judgment and are as accurate as can reasonably be achieved. However, no geophysical equipment can accurately depict all subsurface features due to the geology and environmental conditions of the subsurface. Any intrusive work in proximity to identified anomalies should be carefully considered and cross-referenced with all available site-specific documentation. Coastal is not liable for the use, interpretation, or application of the data and information in this report.

PHOTOS & GPR SCREENSHOTS



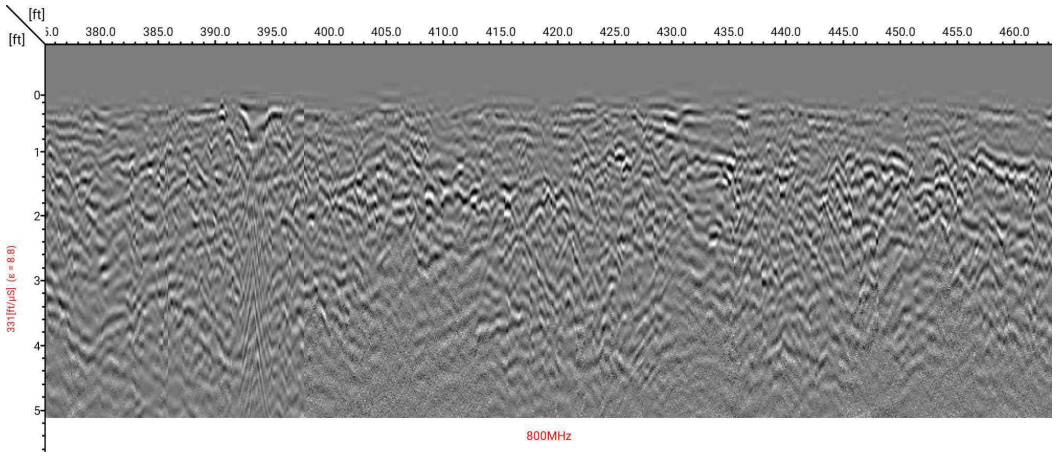
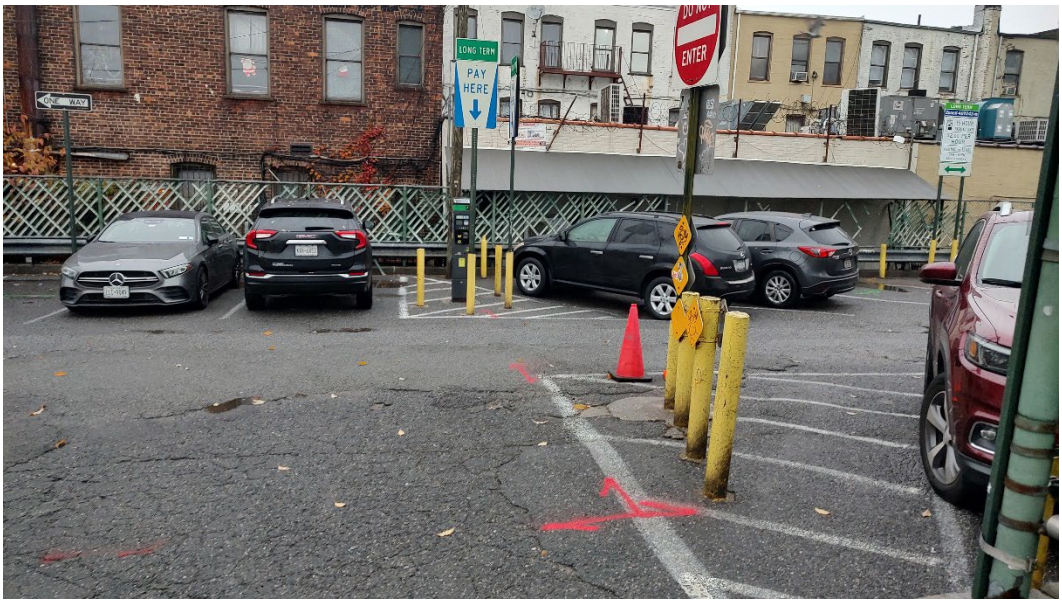


Photo 1 and GPR Screenshot 1 – Photo of the site with a storm vault and related lines leading out of it. Also visible are the fences and staged vehicles by another contractor. All proposed boring locations were cleared and marked as white boxes as seen above. The GPR screenshot shows a detection at approximately 3 feet deep which was determined to be the storm drain lines.



Photos 2 & 3 – Location of the northeastern side of the parking lot containing the storm drain line marked in green and the partial markings of the unknown line marked in pink.





Photos 4 & 5 – Location of the center of the parking lot with the detected electrical lines leading to the parking meters and site lighting, marked in red.



APPENDIX C
SOIL BORING AND TEMPORARY WELL CONSTRUCTION LOGS

Soil Boring Log

31-07 31st St, Queens, NY
AKRF Project Number: 240854

Soil Boring ID: **SB-04**

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	56 - 61 °F, Rainy
Logged By:	J.Peters, AKRF

Drilling
Start Time: 10:50 **Finish Time:** 11:00
Date: 12/11/2024

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	32	Top 2": ASPHALT.	ND	Dry	ND	ND	SB-04_0-2_20241211
2		Next 30": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3							SB-04_2-4_20241211
4							
5							
6							
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19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-11
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 07:40	Finish Time: 07:55
	Driller:	Coastal Environmental Solutions		
	Weather:	~35 °F, Sunny	Date: 12/12/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	45	Top 3": ASPHALT.	ND	Dry	ND	ND	SB-11_0-2_20241212
2		Next 32": Brown SAND, little Brick, Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3		Bottom 10": Brown SAND, little fine Gravel	ND	Dry	ND	ND	SB-11_2-4_20241212
4							
5							
6	43	Brown SAND, little fine Gravel	ND	Dry	ND	ND	SB-11_4-6_20241212
7							
8							
9							
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18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 10 feet below grade.

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-12
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 09:55	Finish Time: 10:10
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	40	Top 3": ASPHALT.	ND	Dry	ND	ND	SB-12_0-2_20241211
2		Bottom 37": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3							
4							
5							
6	60	Top 50": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
7		Bottom 10": CONCRETE (Fill).	ND	Dry	ND	ND	
8							
9							SB-12_8-10_20241211
10							
11	42	Top 19": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	SB-12_10-12_20241211
12		Bottom 23": Light Brown SAND, trace fine Gravel (Native).	ND	Dry	ND	ND	
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-13
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 08:45	Finish Time: 09:10
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	35	Top 1": ASPHALT.	ND	Dry	ND	ND	SB-13_0-2_20241211
2		Next 5": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3		Bottom 29": Brown SANDY SILT, trace fine Gravel (Fill).	ND	Dry	ND	ND	SB-13_2-4_20241211
4							
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Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-14
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 09:10	Finish Time: 09:35
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	33	Top 2": ASPHALT.	ND	Dry	ND	ND	SB-14_0-2_20241211
2		Next 31": Brown SAND, little Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3							SB-14_2-4_20241211
4							
5							
6							
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20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-15
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 09:15	Finish Time: 09:25
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	38	Top 4": ASPHALT.	ND	Dry	ND	ND	SB-15_0-2_20241211
2		Next 30": Brown to Dark Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3		Bottom 4": CONCRETE (Fill).	ND	Dry	ND	ND	SB-15_2-4_20241211
4							
5							
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18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	TW-08	Soil Boring ID:	SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	30 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:15 | Finish Time: 09:30

Date: 12/13/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1 2 3 4 5		1" PVC well casing: 0 to 28' below surface grade.	38	Top 2": ASPHALT. Next 36": Brown SAND, some Gravel, trace Silt (Fill).	ND ND	Dry Dry	ND ND	ND ND	SB-08_0-2_20241213 SB-08_2-4_20241213
6 7 8 9 10			29	Top 20": Brown SAND, little Gravel, trace Silt (Fill). Bottom 9": Brown SAND, trace Gravel.	ND ND	Dry Dry	ND ND	ND ND	SB-08_9-11_20241213
11 12 13 14 15			14	Brown SAND, trace Gravel.	ND	Dry	ND	ND	

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 31.4 feet below grade in TW-08.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series. Sample SB-08_0-2_20241213 was analyzed for PFAS by EPA Method 1633.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	TW-08	Soil Boring ID:	SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	30 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:15 | Finish Time: 09:30

Date: 12/13/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		1" PVC well casing: 0 to 28' below surface grade.	27	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
17									
18									
19									
20									
21			24	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
22									
23									
24									
25									
26			37	Brown SAND, trace Gravel.	ND	Moist @ 28'	ND	ND	
27									
28		1" PVC well screen: 28' to 38' below grade.							
29									
30		Sandpack: 26' to 38' below grade.							

Notes: ▼ Groundwater Depth Indicator

Groundwater measured at 31.4 feet below grade in TW-08.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series. Sample SB-08_0-2_20241213 was analyzed for PFAS by EPA Method 1633.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

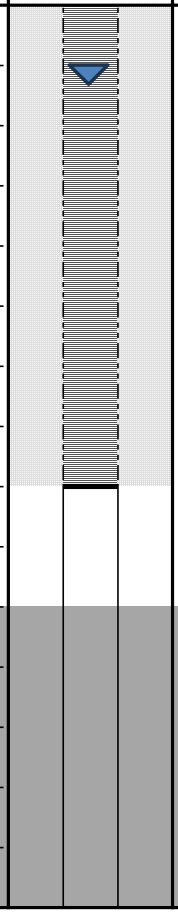
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	TW-08	Soil Boring ID:	SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	30 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling
Start Time: 08:15 | Finish Time: 09:30
Date: 12/13/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31–40		Sandpack: 26' to 38' below grade. 1" PVC well screen: 28' to 38' below grade.	5	Brown SAND, trace Gravel.	ND	Moist	ND	ND	
			40	Brown SAND, trace Gravel.	ND	Wet @ 35'	ND	ND	
41–45									

Notes:
Groundwater Depth Indicator
Groundwater measured at 31.4 feet below grade in TW-08.
Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series. Sample SB-08_0-2_20241213 was analyzed for PFAS by EPA Method 1633.
Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.
End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	TW-09	Soil Boring ID:	SB-09

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 10:40 | Finish Time: 11:15

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		1" PVC well casing: 0 to 30' below surface grade.	32	Top 2": ASPHALT. Bottom 30": Brown SAND, little Gravel, trace Silt (Fill).	ND ND	Dry Dry	ND ND	ND ND	SB-09_0-2_20241212
2									
3									
4									
5									
6			37	Brown SAND, little Gravel, trace Silt (Fill).	ND	Dry	ND	ND	SB-09_8-10_20241212
7									
8									
9									
10									
11			32	Brown SAND, trace Gravel.	ND	Dry	ND	ND	SB-09_10-12_20241212
12									
13									
14									
15									

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 32.67 feet below grade in TW-09.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 33 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	TW-09	Soil Boring ID:	SB-09

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 10:40 | **Finish Time: 11:15**

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		1" PVC well casing: 0 to 30' below surface grade.	33	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
17									
18									
19									
20									
21			32	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
22									
23									
24									
25									
26			37	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
27									
28									
29		Sandpack: 28' to 40' below grade.							
30									

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 32.67 feet below grade in TW-09.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 33 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

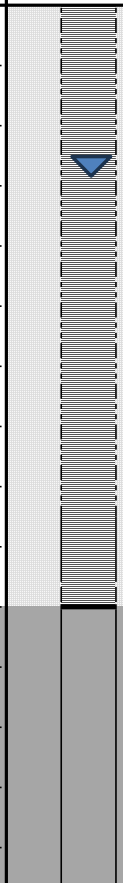
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	TW-09	Soil Boring ID:	SB-09

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440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling
Start Time: 10:40 | Finish Time: 11:15
Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31		1" PVC well screen: 30' to 40' below grade. Sandpack: 28' to 40' below grade.	45	Brown SAND.	ND	Moist @ 31' Wet @ 33'	ND	ND	
32									
33									
34									
35									
36			40	Brown SAND.	ND	Wet	ND	ND	
37									
38									
39									
40									
41									
42									
43									
44									
45									

Notes: ▼ **Groundwater Depth Indicator**

Groundwater measured at 32.67 feet below grade in TW-09.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 33 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	TW-10	Soil Boring ID:	SB-10

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	~35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:10 | Finish Time: 09:00

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1 2 3 4 5		1" PVC well casing: 0 to 30' below surface grade.	22	Top 4": ASPHALT. Bottom 18": Brown SAND, little Gravel, trace Silt (Fill).	ND ND	Dry Dry	ND ND	ND ND	SB-10_0-2_20241212 SB-10_2-4_20241212
6 7 8 9 10			30	Top 22": Brown SAND, little Gravel, trace Silt (Fill). Bottom 8": Brown SAND, trace Gravel.	ND ND	Dry Dry	ND ND	ND ND	SB-10_8-10_20241212
11 12 13 14 15			30	Brown SAND, trace Gravel.	ND	Dry	ND	ND	

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 35.06 feet below grade in TW-10.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	TW-10	Soil Boring ID:	SB-10

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	~35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:10 | **Finish Time: 09:00**

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		1" PVC well casing: 0 to 30' below surface grade.	19	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
17									
18									
19									
20									
21			35	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
22									
23									
24									
25									
26			30	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
27									
28									
29		Sandpack: 28' to 40' below grade.							
30									

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 35.06 feet below grade in TW-10.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	TW-10	Soil Boring ID:	SB-10

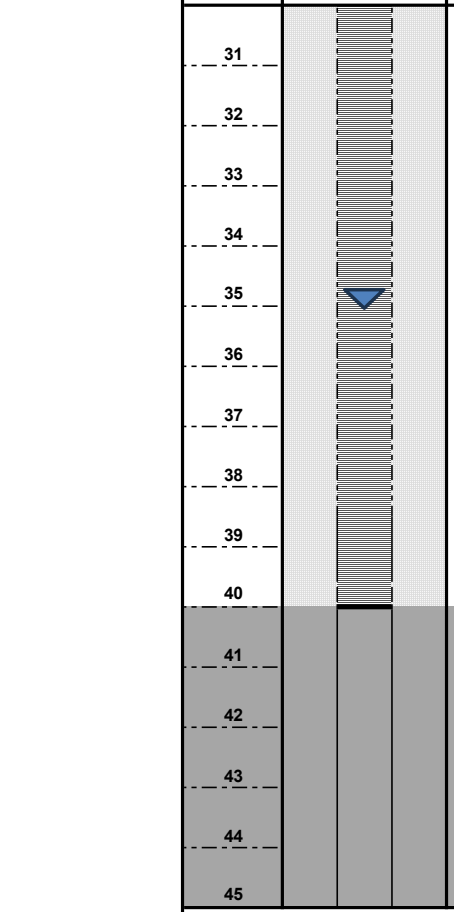
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440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	~35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:10 | Finish Time: 09:00

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31 32 33 34 35 36 37 38 39 40		1" PVC well screen: 30' to 40' below grade. Sandpack: 28' to 40' below grade.	34	Brown SAND, trace Gravel.	ND	Moist @ 34'	ND	ND	
			53	Brown SAND, trace Gravel.	ND	Wet @ 35'	ND	ND	
41 42 43 44 45									

Notes: ▼ Groundwater Depth Indicator

Groundwater measured at 35.06 feet below grade in TW-10.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

APPENDIX D
GROUNDWATER SAMPLING LOGS

APPENDIX E
SOIL VAPOR SAMPLING LOGS

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440 Park Avenue South, 7th Floor
New York, NY 10016

Soil Vapor Sample Log

Project Name:	Ikos Senior Living		**Point Installed By:**	Coastal Environmental Solutions	
Project Location:	31-07 31st St, Queens, NY		**Installation Method:**	Geoprobe 7822DT	
Project Number:	240854		**Sampled By:**	S. Schmid, J. Peters	
Client:	Ikos Senior Living LLC		**Date:**	12/13/2024	
			Weather:	30°F, Sunny	
Sample Setup					
Vapor Point Depth:	24	Inches	**Purge Time:**	9.5 Minutes	
Purging Pump:	GilAir		**Purged Vapor PID:**	0.4	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0	%
Sample Identification					
Soil Vapor Point ID:	SV-06		**SUMMA® Canister ID:**	4658	
Flow Controller ID:	3943		**Soil Vapor Sample ID:**	SV-06_20241213	

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:21	-29	ND	None
Time Halfway:	10:21	-19	ND	None
Time Stopped:	11:21	-5	ND	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample SV-06_20241213 collected in a 1-L SUMMA® canister using a 2-hour flow controller.			

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Soil Vapor Sample Log

Project Name:	Ikos Senior Living		**Point Installed By:**	Coastal Environmental Solutions	
Project Location:	31-07 31st St, Queens, NY		**Installation Method:**	Geoprobe 7822DT	
Project Number:	240854		**Sampled By:**	S. Schmid, J. Peters	
Client:	Ikos Senior Living LLC		**Date:**	12/13/2024	
			Weather:	30°F, Sunny	
Sample Setup					
Vapor Point Depth:	24	Inches	**Purge Time:**	9.5 Minutes	
Purging Pump:	GilAir		**Purged Vapor PID:**	0.9	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0	%
Sample Identification					
Soil Vapor Point ID:	SV-07		**SUMMA® Canister ID:**	4968	
Flow Controller ID:	6549		**Soil Vapor Sample ID:**	SV-07_20241213	

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:27	-28	ND	None
Time Halfway:	10:27	-20	ND	None
Time Stopped:	11:27	-6	ND	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample SV-07_20241213 collected in a 1-L SUMMA® canister using a 2-hour flow controller.			

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New York, NY 10016

Soil Vapor Sample Log

Project Name:	Ikos Senior Living	**Point Installed By:**	Coastal Environmental Solutions
Project Location:	31-07 31st St, Queens, NY	**Installation Method:**	Geoprobe 7822DT
Project Number:	240854	**Sampled By:**	S. Schmid, J. Peters
Client:	Ikos Senior Living LLC	**Date:**	12/13/2024
		Weather:	30°F, Sunny

Sample Setup

Vapor Point Depth:	72	Inches	**Purge Time:**	10 Minutes	
Purging Pump:	GilAir		**Purged Vapor PID:**	1.8	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0	%

Sample Identification

Soil Vapor Point ID:	SV-11	**SUMMA® Canister ID:**	6805
Flow Controller ID:	6554	**Soil Vapor Sample ID:**	SV-11_20241213

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:19	-28	ND	None
Time Halfway:	10:20	-15	ND	None
Time Stopped:	11:19	-5	ND	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample SV-11_20241213 collected in a 1-L SUMMA® canister using a 2-hour flow controller.			

APPENDIX F
LABORATORY DATA DELIVERABLES

IKOS SENIOR LIVING

32-11 31ST STREET

QUEENS, NEW YORK

Draft Remedial Investigation Report

NYSDEC BCP Number: C241290
AKRF Project Number: 240854

Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York 12233

Prepared on Behalf of:
Ikos Senior Living LLC
48-02 25th Avenue, Suite 400
Astoria, NY 11103

Prepared by:

AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, New York 10016
(212) 696-0670

JULY 2026

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LIST OF ACRONYMS

Acronym	Definition
1,1,1-TCA	1,1,1-trichloroethane
1,1-DCE	1,1-dichloroethylene
ACM	Asbestos Containing Material
AOCs	Areas of Concern
ASTM	American Society for Testing and Materials
AWQSGVs	Ambient Water Quality Standards and Guidance Values
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bsg	Below Surface Grade
BTEX	A group of VOCs comprising benzene, toluene, ethylbenzene, and xylenes
CAMP	Community Air Monitoring Plan
Cis-1,2-DCE	Cis-1,2-dichloroethylene
CoC	Chain of Custody
COC	Contaminants of Concern
DER-10	Division of Environmental Remediation Technical Guide 10
DPP	Direct-push Probe
DUSR	Data Usability Summary Report
ECs	Engineering Controls
ELAP	New York State Environmental Laboratory Approval Program
EM	Electromagnetic
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
ESC	Environmental Studies Corporation, Incorporated
eV	Electron Volt
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
HDPE	High-density Polyethylene
ICs	Institutional Control
IDW	Investigation Derived Waste
LBP	Lead-based Paint
MCL	Maximum Contaminant Level
MEK	Methyl Ethyl Ketone
mg/kg	Milligrams per Kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
NAVD88	North American Vertical Datum of 1988
ND	Non-Detectable
NTUs	Nephelometric Turbidity Units
NYCRR	New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
ORP	Oxidation-Reduction Potential

Acronym	Definition
OSHA	United States Occupational Safety and Health Administration
P.S.	Public School
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethylene
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PID	Photoionization detector
ppb	Parts per billion
ppm	Parts per million
ppt	Parts per trillion
PVC	Polyvinyl Chloride
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QEP	Qualified Environmental Professional
QHHEA	Qualitative Human Health Exposure Assessment
RA	Remedial Action
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RRSCO	Restricted Residential Soil Cleanup Objective
SCOs	Soil Cleanup Objectives
SIM	Selective Ion Monitoring
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethylene
UST	Underground Storage Tank
UUSCO	Unrestricted Use Soil Cleanup Objective
VEC	Vapor Encroachment Condition
VOC	Volatile Organic Compound
µg/kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
$\mu g/m^3$	Micrograms per Meter Cubed

CERTIFICATION

I, Deborah Shapiro, QEP, certify that I am currently a Qualified Environmental Professional (QEP), as defined in 6 NYCRR Part 375, and that this Remedial Investigation Report (RIR) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10), and that all activities were performed in full accordance with the DER-approved work plans, work plan addenda, and any DER-approved modifications.

Deborah Shapiro, QEP		DRAFT
Qualified Environmental Professional	Date	Signature

EXECUTIVE SUMMARY

The purpose of this Remedial Investigation Report (RIR) is to define the nature and extent of contamination at the Site to establish remedial action objectives (RAOs) and select a remedy. This RIR provides information for the establishment of appropriate RAOs, evaluation of remedial action (RA) alternatives, and selection of a remedy pursuant to the Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation. The Remedial Investigation (RI) described in this RIR is consistent with applicable guidance.

Site Location and Current Usage

The Site is an approximately 0.48-acre parcel located at 32-11 31st Street in the Astoria section of Queens, New York, also identified as Borough of Queens Tax Block 611, Lot 25 on the New York City Tax Map. On October 6, 2025, Ikos Senior Living LLC (the "Applicant") entered into a Brownfield Cleanup Agreement (BCA) (Index No. C241290) for the Site with the New York State Department of Environmental Conservation (NYSDEC) as a Volunteer.

The Site currently consists of a municipal, asphalt-paved parking lot and is not developed with any permanent structures. The Site location is shown on Figure 1, and the Site layout is shown on Figure 2.

Surrounding Area

The Site is abutted to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. The greater surrounding area includes primarily commercial, retail, residential, and transit uses.

Surrounding land use is shown on Figure 3.

Historical Site Uses

A review of available records indicates that the Site was developed with a residential dwelling from at least 1898 to 1979 and included several vacant lots. The Site was depicted in its current configuration as one contiguous lot and identified as a parking facility by 1988. The City of New York has owned and operated the Site since December 18, 1997, through a court order in which the City of New York acquired title to the Site via eminent domain for use as a municipal parking field.

Areas of Concern (AOCs)

The following environmental issues identified during previous assessments were considered areas of concern (AOCs) for the RI. The AOCs included:

- Historic commercial, industrial, and automotive uses in the surrounding area, including a filling station, a garage and auto repair shop with gasoline tanks, a dry cleaner, and a machine shop and warehouse;
- Polyaromatic hydrocarbons (PAHs) in soil; and
- Elevated concentrations of solvent-related compounds in soil vapor and groundwater.

Summary of the Work Performed under the Remedial Investigation (RI)

The RI was conducted between April 27 and May 13, 2026 under a NYSDEC-approved Remedial Investigation Work Plan (RIWP) and included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 15 soil borings with collection and laboratory analysis of 80 soil samples.

3. The installation of 10 permanent, 2-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 10 groundwater samples.
4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.
5. The performance of a groundwater monitoring well elevation and location survey of the permanent monitoring wells.

AKRF conducted a Phase II investigation at the Site between October 3 and 5, 2022 under a New York City Department of Environmental Protection (NYCDEP)-approved Phase II Work Plan and included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 7 soil borings with the collection and laboratory analysis of 14 soil samples.
3. The installation of 4 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 4 groundwater samples.
4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.

AKRF conducted a RI at the Site between December 11 and 13, 2024 under a New York City Mayor's Office of Environmental Remediation (NYCOER)-approved Phase II work plan and included the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.)
2. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
3. The advancement of 9 soil borings with the collection and laboratory analysis of 23 soil samples.
4. The installation of 3 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 3 groundwater samples.
5. The installation of 3 temporary soil vapor probes and the collection and laboratory analysis of 3 soil vapor samples.

Summary of Hydrogeological Findings

The following geologic and hydrogeologic conditions were noted during the RI:

1. Based on the May 2026 survey of the newly installed monitoring wells by Fehringer Surveying, PC, the Site lies at an elevation of 50.16 to 55.6 feet above the North American Vertical Datum of 1988 (NAVD88).
2. The stratigraphy of the Site, from the surface down, generally consisted of a surficial layer of asphalt, underlain by fill material comprised of sand, silt, brick, and gravel extending from grade to approximately 2 to 10 feet below grade during the 2026 RI. During previous investigations, fill material was encountered at depths ranging from just below surface grade down to approximately 5 to 14 feet below grade. The fill was underlain by native material comprised of sand, silt, and gravel to the boring terminus. Bedrock was encountered between 47 and 51 feet below grade in borings RI-SB-01, RI-SB-05, and RI-SB-08.
3. Groundwater beneath the Site ranges from elevation 18.82 to elevation 20.08 (NAVD88), or 29.91 to 36.12 feet below grade across the Site. Regional groundwater flow is westerly direction toward the East River. Based on the site-specific well elevation survey, groundwater flow direction was in a generally southwesterly direction.

Summary of Environmental Findings

Soil

2026 RI

- Volatile organic compounds (VOC) detections included acetone, ethylbenzene, m/p-xylene, o-xylene, tetrachloroethylene (PCE), and total xylenes at concentrations up to 3.8 milligrams per kilogram (mg/kg). PCE was detected at low levels in many samples but was detected above the NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCO) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) in one soil sample (RI-SB-11_4-6_20260428 at a concentration of 3.8 mg/kg). There were no VOC exceedances above the RRSCOs.
- Nine SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene were detected above the UUSCOs and/or RRSCOs in up to four soil samples at concentrations up to 6.9 mg/kg [benzo(a)pyrene in sample RI-SB-10_0-0.17_20260427]. SVOCs were detected at individual concentrations ranging from 0.0047 (acenaphthylene in RI-SB-05_2-4_20260501) to 12 mg/kg in (fluoranthene in RI-SB-10_0-0.17_20260427). Total SVOC concentrations ranged from non-detect to 39.34 mg/kg in sample RI-SB-11_4-6_20260428.
- Polychlorinated biphenyls (PCBs) were detected above laboratory reporting limits in sample SB-02_0-2_20221003 at a concentration of 0.63 mg/kg in PCB-1260 (Aroclor 1260) and PCB-1268 (Aroclor 1268) but below their respective UUSCOs or RRSCOs. The pesticide P,P'-DDT was detected above the UUSCO, but below the RRSCO in 10 soil samples. Pesticides were detected at individual concentrations ranging from 0.0029 (4.4'-DDE in RI-SB-08_0-2_20260501) to 0.013 mg/kg in (fluoranthene in RI-SB-10_0-0.17_20260427).
- Copper, lead, mercury, and zinc were detected in soil samples across the Site above their respective UUSCOs in shallow fill material down to 6 feet below grade. Lead was additionally detected above the RRSCO of 400 mg/kg in sample RI-SB-10_4-6_20260427 at a concentration of 4,660 mg/kg. Mercury was detected above the RRSCO of 0.3 mg/kg in sample RI-SB-02_0-0.17_20260429 at a concentration of 0.32 mg/kg. Metals were detected at individual concentrations ranging from 0.0067 (mercury in RI-SB-13_0-0.17_20260428) to 72,000 mg/kg in (calcium in RI-SB-08_0-0.17_20260501).
- Perfluorooctanesulfonic acid (PFOS) was detected above the NYSDEC unrestricted use guidance value of 0.88 parts per billion (ppb) in four samples with concentrations ranging from 1.02 ppb to 2.34 ppb. PFOS were detected at individual concentrations ranging from 0.098 ppb (RI-SB-08_0-2_20260501) to 2.34 ppb in (fluoranthene in RI-SB-10_0-0.17_20260427). Perfluorooctanoic acid (PFOA) was detected above the NYSDEC unrestricted use guidance value of 0.66 ppb in two samples, with concentrations up to 1.54 ppb. PFOA were detected at individual concentrations ranging from 0.06 ppb in RI-SB-10_0-0.17_20260427 to 1.54 ppb in RI-SB-10_6-8_20260427. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

2022 and 2024 Phase II Investigations

- VOCs detections included 1,2,4-trimethylbenzene, acetone, PCE, toluene, and trichloroethylene (TCE) at concentrations up to 0.16 mg/kg. Acetone was detected above the UUSCO of 0.03 mg/kg in three samples. There were no exceedances of the RRSCOs or PGWSCOs.

- SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene were detected at concentrations up to 29 mg/kg, above the UUSCOs and/or RRSCOs [benzo(b)fluoranthene in sample SB-05_0-2_20221004].
- PCBs were not detected above the UUSCOs or RRSCOs. The pesticides cis-chlordane, P,P'-DDE, and P,P'-DDT were detected above the UUSCOs, but below the RRSCOs.
- Copper, lead, mercury, and zinc were detected in soil samples across the Site above their respective UUSCOs in shallow fill material down to 4 feet below grade. Mercury was detected above the RRSCO of 0.3 mg/kg in one sample (SB-04_0-2_20221003) at a concentration of 0.59 mg/kg.
- During the 2024 Phase II investigation, one soil sample was analyzed for PFAS (SB-08_0-2_20241213). PFOS was detected above the NYSDEC unrestricted use guidance value of 0.88 ppb at a concentration of 2.17 ppb. PFOA and 1,4-dioxane were not detected above laboratory reporting limits in the soil sample.

Groundwater

2026 RI

- The VOCs acetone, chloroform, cis-1,2-dichloroethene, dichlorobromomethane, PCE, and/or TCE were detected in all 10 groundwater samples at concentrations ranging from 0.27 micrograms per liter (µg/L) to 860 µg/L (PCE in sample RI-MW-03_20260513). Chloroform, cis-1,2-dichloroethene, PCE, and/or TCE were detected above the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs) in all groundwater samples.
- SVOCs were not detected above laboratory reporting limits.
- PCBs and pesticides were not detected above laboratory reporting limits.
- In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for manganese and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for iron, manganese, and sodium, up to 169,000 µg/L.
- PCBs or pesticides were not detected above laboratory reporting limits in any of the groundwater samples.
- PFOS was detected above its NYSDEC guidance value of 2.7 parts per trillion (ppt) in all eight groundwater samples, and the blind duplicate. PFOA was detected above its NYSDEC guidance value of 6.7 ppt in in all eight groundwater samples, and the blind duplicate. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

2022 and 2024 Phase II Investigations

- The VOCs acetone, benzene, bromodichloromethane, chloroform, cis-1,2-dichloroethene, dibromochloromethane, m,p-xylenes, methyl ethyl ketone, methylene chloride, PCE and/or TCE were detected in all seven groundwater samples at concentrations ranging from 0.3 µg/L to 330 µg/L (PCE in sample TW-04_20221004).
- Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, and indeno(1,2,3-c,d)pyrene were detected in sample TW-01_20221005 at concentrations above the AWQSGVs, up to 6.2 µg/L.
- PCBs and pesticides were not detected above laboratory reporting limits.

- In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for iron, magnesium, manganese, and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for arsenic, barium, beryllium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, sodium, thallium, and zinc up to 971,000 µg/L.
- PCBs or pesticides were not detected above laboratory reporting limits in any of the groundwater samples.
- The groundwater samples were not analyzed for PFAS. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

Soil Vapor

2026 RI

- Solvent-related VOCs (including bromodichloromethane, chloroform, chloromethane, cis-1,2-dichloroethene, methylene chloride, PCE, TCE, trans-1,2-dichloroethene, and trichlorofluoromethane) were detected in the soil vapor samples at individual concentrations up to 12,000 micrograms per cubic meter (µg/m^3) from a diluted analysis (PCE in sample SV-02_20210825).
- Petroleum-related VOCs [such as 1,2,4-trimethylbenzene, 1,3-butadiene, 2,2,4-trimethylpentane, 1,3-dichlorobenzene, 4-methyl-2-pentanone, carbon disulfide, cyclohexane, methyl butyl ketone, methyl ethyl ketone, n-butane, n-heptane, n-hexane, tert-butyl alcohol, benzene, toluene, ethylbenzene, and m,p- and-o-xylenes (collectively referred to as BTEX)], were detected in the soil vapor samples at individual concentrations up to 150 µg/m^3 from a diluted analysis (m,p-xylene in sample RI-SV-03_20260429).
- When compared to the New York State Department of Health (NYSDOH) Decision Matrices, cis-1,2-dichloroethene, PCE, and TCE were detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples RI-SV-02_20260429, RI-SV-03_20260429, and RI-SV-04_20260429.

2022 and 2024 Phase II Investigations

- Solvent-related VOCs, including carbon disulfide, chloroform, cis-1,2-dichloroethylene, PCE, and TCE were detected at concentrations up to 1,900 µg/m^3 (PCE in sample SV-04_20221003).
- Petroleum-related VOCs, including 1,3-butadiene, 2,2,4-trimethylpentane, benzene, butane, cyclohexane, methyl ethyl ketone, n-heptane, n-hexane, styrene, and toluene were detected at concentrations up to 66 µg/m^3 (butane in sample SV-07_20241213).
- When compared to the NYSDOH Decision Matrices, cis-1,2-dichloroethene was detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples SV-01_20221004, SV-02_20221003, and SV-03_20221004. PCE was detected above the lowest level requiring mitigation, regardless of indoor air concentration in sample SV-04_20221003.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

This Remedial Investigation Report (RIR) summarizes the Remedial Investigation (RI) work performed between April 27 and May 13, 2026, and previous investigations conducted at the Site in October 2022 and December 2024 at 32-11 31st Street, Queens, New York (the "Site"). The goal of the RI was to determine the horizontal and vertical extent of contamination identified during previous environmental investigations and to aid in the design of the remedy. The RI was conducted in general accordance with AKRF's March 2026 New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Investigation Work Plan (RIWP), which included a Health and Safety Plan (HASP) and a Quality Assurance Project Plan (QAPP). The Phase II investigation was conducted in accordance with AKRF's June 2022 New York City Office of Environmental Remediation (NYCOER)-approved Phase II Work Plan and a previous remedial investigation was conducted in accordance with AKRF's November 2024 NYCOER-approved Phase II Work Plan. Deviations from the RIWP are described throughout the document, specifically in Section 4.7.10, although none of the deviations materially affected achieving the objectives of the RI.

1.1 Site Location and Current Usage

The Site consists of an approximately 0.48-acre parcel located at 32-11 31st Street in the Astoria section of Queens, New York, and is identified by the City of New York as Queens Borough Tax Block 611, Lot 25. On October 6, 2025, Ikos Senior Living LLC, (the "Volunteer") entered into a Brownfield Cleanup Agreement (BCA) (Index No. C241290) for the Site with NYSDEC.

The Site currently consists of a municipal, asphalt-paved parking lot and is not developed with any permanent structures. The Site location is shown on Figure 1, and the Site layout is shown on Figure 2.

1.2 Description of Surrounding Property

The Site is bounded to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. The greater surrounding area includes primarily commercial, retail, residential, and transit uses.

The following sensitive receptors are located within 1,000 feet of the Site:

- The Learning Experience daycare, located at 31-57 31st Street, approximately 330 feet north-northeast of the Site.
- Elva's Daycare, located at 31-57 34th Street, Apartment 4B, approximately 845 feet east of the Site.
- Adventureland Child Care Center, located at 32-04 31st Avenue, approximately 1,000 feet northeast of the Site.

Figure 3 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Site, specifically Sanborn Fire Insurance Maps in multiple years between 1898 and 2006. In 1898 and 1915, the Site was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Site. In 1936, the Site remained mostly unchanged except for the addition of a one-car garage to the east of the previously identified dwelling. The Site continued unchanged until 1979-1896, when the identified dwelling was no longer depicted on the Site, while the one-car garage remained. The western portion of the Site was identified as parking. In 1988-1989 the Site was developed in its current configuration, as the one-car garage was no longer identified on the Site, and the entirety of the Site was labeled as parking.

Sanborn maps identified primarily residential and commercial historical uses, adjacent to the Site and surrounding area. Some of the pertinent commercial listings between circa 1936 and 2006 included a filling station located north-northeast of the Site; a garage and auto repair shop with gasoline tanks located northwest of the Site; a dry cleaner located northeast of the Site; and a machine shop and warehouse located southwest of the Site.

2.2 Proposed Redevelopment Plan

The Site is currently zoned as R5 C4-5 along 31st Street and C4-2A along 32nd Street. The Site was rezoned in March 2026 under the Ikos Senior Housing Rezoning & Urban Development Action Area Project (UDAAP), subject to City Environmental Quality Review (CEQR), and allows for the development of community facility space and increased residential space.

Currently, proposed plans include construction of two new buildings: a 13-story residential building with approximately 167 affordable senior residential units and partial cellar level is proposed along 31st Street, and a three-story community facility building (slab-on-grade) is proposed on 32nd Street. The two buildings will be connected through a one-story community room. Layout of the proposed site development is presented in Figure 2. The proposed development plan is included in Appendix A.

The Site was assigned an E-Designation (E-771) in October 2025 for hazardous materials as part of the Ikos Senior Housing Rezoning.

2.3 Previous Environmental Reports

Phase I Environmental Site Assessment – 31-07 31st Street, Astoria, NY, AKRF, Inc., June 2021

AKRF prepared a Phase I Environmental Site Assessment (ESA) for the Site in June 2021 in accordance with the requirements of American Society for Testing and Materials (ASTM) Standard E1527-13 (the applicable standard at that time). At the time of AKRF's assessment, the Site was occupied by a municipal parking lot with no structures. The Phase I ESA included a review of current and historical Sanborn Fire Insurance maps; state and federal environmental regulatory databases; local records; and reconnaissance of the Site and its surroundings. Based on the findings of the Phase I ESA, the following Recognized Environmental Conditions (RECs) were identified:

- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry-cleaning uses in the surrounding area.

AKRF identified the following Business Environmental Risks (BERs) and De Minimus conditions outside the scope of ASTM E1527-13:

- One groundwater monitoring well was observed on the 31st Street sidewalk west-adjacent of the Site.
- Buried demolition debris from former on-site structures could contain asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), and/or underground storage tanks.
- Three five-gallon containers of orphan waste were located on the southeastern-most corner of the Site. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked.

Subsurface (Phase II) Investigation Report – 31-07 31st Street, Astoria, NY, AKRF, Inc., January 2024

AKRF conducted a Phase II investigation at the Site in October 2022 in accordance with a New York City Department of Environmental Protection (NYCDEP)-approved Phase II Work Plan, dated June 2022. Field activities included a geophysical survey, the advancement of seven soil borings, and the installation of four temporary wells and five soil vapor probes, with the collection of 14 soil samples, four groundwater samples, and five soil vapor samples for laboratory analysis. A summary of the findings is provided below:

- Fill material was encountered at depths ranging from just below surface grade down to approximately 5 to 14 feet below grade. The fill material was underlain by apparent native material consisting of sand and gravel. Groundwater, as measured from the temporary wells, was encountered between approximately 30.3 and 36.6 feet below grade. No field evidence of contamination was noted in the soil borings or groundwater samples.
- Two soil samples were collected from each boring and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and metals. The 14 soil samples were compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Use Soil Cleanup Objectives (RRSCOs). Acetone was detected above the UUSCO in two samples; no VOCs were detected above the RRSCOs. Seven SVOCs were detected above the UUSCOs and/or RRSCOs, including benzo(a)anthracene [max. 25 milligrams per kilogram (mg/kg)], benzo(a)pyrene (max. 23 mg/kg), benzo(b)fluoranthene (max. 29 mg/kg), benzo(k)fluoranthene (max. 7.6 mg/kg), chrysene (max. 23 mg/kg), dibenz(a,h)anthracene (max 2.7 mg/kg), and indeno(1,2,3-c-d)pyrene (max. 17 mg/kg). Four metals were detected in up to four samples above their UUSCOs, but below the RRSCOs, including copper (max. 63.1 mg/kg), lead (max. 283 mg/kg), mercury (max. 0.59 mg/kg), and zinc (max. 149 mg/kg). The pesticide P,P'-DDT was detected in sample SB-05_0-2_20221004 at a concentration of 0.0063 mg/kg above the UUSCO of 0.0033 mg/kg, but below the RRSCO.
- Four groundwater samples were collected from temporary wells TW-01 through TW-04 (installed in borings SB-01 through SB-04) and analyzed for VOCs, SVOCs, PCBs, pesticides, and metals (total and dissolved). Three VOCs [tetrachloroethylene (PCE) (max. 330 micrograms per liter (µg/L)], cis-1,2-dichloroethene (max. 14 µg/L), and chloroform (max. 9.2 µg/L)] were detected in at least one of the four samples above the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs). Six SVOCs, including benzo(a)anthracene (max. 2.1 µg/L), benzo(a)pyrene (max. 1.6 µg/L), benzo(b)fluoranthene (max. 2.2 µg/L), bis(2-ethylhexyl) phthalate (max. 6.2 µg/L), chrysene (max 2 µg/L), and indeno(1,2,3-c-d)pyrene (max. 1.6 µg/L), were detected in sample TW-01_20221005 at concentrations above the AWQSGVs. In the unfiltered (total) metals analysis, 14 metals were

detected at concentrations above the AWQSGVs, including arsenic (max. 62.9 µg/L), barium (max. 3,540 µg/L), beryllium (max. 14.2 µg/L), chromium, total (max. 3,390 µg/L), copper (max. 1,340 µg/L), iron (max. 971,000 µg/L), lead (max. 857 µg/L), magnesium (max. 355,000 µg/L), manganese (max. 24,600 µg/L), mercury (max. 1.7 µg/L), nickel (max. 922 µg/L), sodium (max. 140,000 µg/L), thallium (max. 5.1 µg/L), and zinc (max. 2,640 µg/L). In the filtered (dissolved) metals analysis, four metals, including iron (max. 1,630 µg/L), magnesium (max. 45,900 µg/L), manganese (max. 450 µg/L), and sodium (max. 141,000 µg/L) were detected at concentrations above the AWQSGVs. No PCBs or pesticides were detected above laboratory reporting limits in the groundwater samples.

- Several solvent-related VOCs [including PCE (max 1,900 µg/L), trichloroethylene (TCE) (max. 45 µg/L), and cis-1,2-dichloroethylene (max. 200 µg/L)] were detected in the soil vapor samples. Petroleum-related VOCs benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) were detected in up to all five soil vapor samples at concentrations up to 29 $\mu g/m^3$ (toluene in SV-04_20221003).

Remedial Investigation Report – 31-07 31st Street, Queens, NY, AKRF, Inc., January 2025

Although a subsurface investigation was conducted in 2022 under a NYCDEP-approved Work Plan, OER required an additional subsurface investigation to satisfy the Hazardous Materials E-Designation (E-771). AKRF conducted a Remedial Investigation at the Site in December 2024 in accordance with an OER-approved Phase II Work Plan, dated November 2024. Field activities included a geophysical survey, the advancement of nine soil borings, and the installation of three temporary wells and three soil vapor probes, with the collection of 23 soil samples, three groundwater samples, and three soil vapor samples for laboratory analysis. A summary of the findings is provided below:

- Twenty-three soil samples were collected for laboratory analysis during this investigation. One sample (SB-08_0-2_20241213) was also analyzed for perfluoroalkyl and polyfluoroalkyl substances (PFAS). VOCs were detected at concentrations up to 0.087 mg/kg, below the UUSCOs, RRSCOs, and PGWSCOs. Up to six SVOCs [benzo(a)anthracene (max. 2.8 mg/kg), benzo(a)pyrene (max. 2.7 mg/kg), benzo(b)fluoranthene (max. 3.8 mg/kg), benzo(k)fluoranthene (max. 1.4 mg/kg), chrysene (max. 2.8 mg/kg), and indeno(1,2,3-c,d)pyrene (max. 1.4 mg/kg)] were detected above the UUSCOs, RRSCOs, and/or PGWSCOs in five soil samples. Four metals were detected above their respective UUSCOs in one or more of the soil samples: copper (max. 62.3 mg/kg), lead (max. 379 mg/kg), mercury (max. 0.27 mg/kg), and zinc (max. 173 mg/kg). No metals were detected above the RRSCOs or PGWSCOs. PCBs were not detected above laboratory reporting limits in any of the soil samples analyzed during the investigation. The pesticides P,P'-DDE and P,P'-DDT were detected in one sample at concentrations of 0.004 mg/kg and 0.008 mg/kg, respectively, above the UUSCO of 0.0033 mg/kg, but below their respective RRSCOs and PGWSCOs. PFOS was detected in the soil sample analyzed (SB-08_0-2_20241213) at a concentration of 2.17 parts per billion (ppb), above the UUSCO guidance value of 0.88 ppb, and the PGWSCO guidance value of 1.0 ppb, but below the RRSCO guidance value of 44 ppb. Perfluorooctanoic acid (PFOA) and 1,4-dioxane were not detected above laboratory reporting limits.
- Three groundwater samples were collected from temporary wells TW-08 through TW-10 and analyzed for VOCs, SVOCs, PCBs, pesticides, metals (total and dissolved), and 1,4-dioxane. Six VOCs (bromodichloromethane, chloroform, cis-1,2-dichloroethylene, dibromochloromethane, PCE, and TCE) were detected in one or more groundwater samples at concentrations ranging from 0.34 µg/L of bromodichloromethane to 310 µg/L of PCE. PCE was detected in all three groundwater samples at concentrations ranging from 60 to 310 µg/L,

above the AWQSGV of 5 µg/L. Three SVOCs, 1,4-dioxane, caprolactam, and di-n-butyl phthalate, were detected in one or more of the groundwater samples at concentrations up to 21 µg/L, below their respective AWQSGVs. Fourteen metals were detected above the AWQSGVs in one or more of the total (unfiltered) samples: arsenic (max. 73.3 µg/L), barium (max. 4,580 µg/L), beryllium (max. 14 µg/L), total chromium (max. 1,350 µg/L), copper (max. 1,000 µg/L), iron (max. 667,000 µg/L), lead (max. 707 µg/L), magnesium (max. 370,000 µg/L), manganese (max. 18,400 µg/L), mercury (max. 1.1 µg/L), nickel (max. 814 µg/L), sodium (max. 123,000 µg/L), thallium (max. 1.6 µg/L), and zinc (max. 2,040 µg/L). Manganese and sodium were also detected above the AWQSGVs in the dissolved (filtered) groundwater samples. No PCBs or pesticides were detected above laboratory reporting limits in any of the groundwater samples. 1,4-Dioxane was detected in two groundwater samples at concentrations up to 0.13 µg/L, below the AWQSGV of 0.35 µg/L.

- Three soil vapor samples were collected for laboratory analysis from soil vapor points SV-06, SV-07, and SV-11, and analyzed for VOCs by EPA TO-15. Petroleum-related VOCs were detected at concentrations ranging from 2.3 $\mu g/m^3$ to 66 $\mu g/m^3$. Solvent-related VOCs were detected at concentrations ranging from 1.4 $\mu g/m^3$ to 25 $\mu g/m^3$. No compounds were detected above the New York State Department of Health (NYSDOH) Soil Vapor/Indoor Air Matrices requiring mitigation, regardless of indoor air concentration.

2.4 Areas of Concern (AOCs)

The following environmental issues, discussed in Section 2.3, were considered areas of concern (AOCs) for the RI:

- Historic commercial, industrial, and automotive uses in the surrounding area, including a filling station, a garage and auto repair shop with gasoline tanks, a dry cleaner, and a machine shop and warehouse;
- Polyaromatic hydrocarbons (PAHs) in soil; and
- Elevated concentrations of solvent-related compounds in soil vapor and groundwater.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

Contact information for the parties responsible for the work described in this RIR are included in Table A:

Table A
Project Organization

Company	Individual Name	Title	Contact Number(s)
NYSDEC	Elliott Jackson	Project Manager	(518) 402-9789
NYSDOH	Mya Burns	Project Manager	(518) 402-7860
AKRF, Inc.	Deborah Shapiro	Project Director, QEP	(646) 388-9544
	Adrianna Bosco	Project Manager	(646) 388-9576
	Marc Godick	Project QA/QC Officer	(212) 696-0670
	Ben Hess	Alternate Project Manager	(212) 696-0670
	Brian Quinn	Field Team Leader/SSO	(201) 314-8032
Ikos Senior Living LLC	Alexa Mendel	Applicant's Representative	(929) 463-7686

3.2 Health and Safety

All work described in this report was performed in full compliance with applicable laws and regulations, including Site and Occupational Safety and Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements. The RI described in this RIR was also performed in general accordance with the Site-specific HASP dated October 2025.

3.2.1 Air Monitoring

In accordance with the RIWP and Community Air Monitoring Plan (CAMP), work zone air monitoring was conducted using handheld roving equipment and community air monitoring was conducted using two fixed air monitoring stations set up at the upwind and downwind perimeters of the exclusion zone. Air monitoring was conducted during all ground intrusive activities and measured levels of VOCs and particulates. No exceedances of the action levels were reported during the RI.

Air monitoring logs and CAMP data are provided in Appendix C.

4.0 REMEDIAL INVESTIGATION (RI) ACTIVITIES

The RI was conducted between April 27 and May 13, 2026 under a NYSDEC-approved RIWP and included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 15 soil borings with collection and laboratory analysis of 80 soil samples.
3. The installation of 10 permanent, 2-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 10 groundwater samples.
4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.
5. The performance of a groundwater monitoring well elevation and location survey of the permanent monitoring wells.

The sampling conducted during the RI built upon the results of the Phase II conducted between October 3 and 5, 2022 under a NYCDEP-approved Phase II Work Plan and a RI conducted between December 11 and 13, 2024 under a NYCOER-approved Phase II work plan. The Phase II conducted in 2022 included the following scope of work:

1. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
2. The advancement of 7 soil borings with the collection and laboratory analysis of 14 soil samples.
3. The installation of 4 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 4 groundwater samples.
4. The installation of 5 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.

The RI conducted in 2024 included the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.)
2. The performance of a geophysical survey across accessible portions of the Site and utility mark-outs.
3. The advancement of 9 soil borings with the collection and laboratory analysis of 23 soil samples.
4. The installation of 3 temporary, 1-inch-diameter groundwater monitoring wells with the collection and laboratory analysis of 3 groundwater samples.
5. The installation of 3 temporary soil vapor probes and the collection and laboratory analysis of 5 soil vapor samples.

The locations of all soil borings, groundwater monitoring wells, and temporary soil vapor points are shown on Figure 2.

4.1 Geophysical Survey

A geophysical survey was conducted across accessible portions of the Site by Radar Dynamics of Fair Lawn, New Jersey to investigate the presence of potential USTs and subsurface utilities, and to clear the proposed sampling locations. The geophysical survey included ground penetrating radar (GPR) and radio detection methods.

The geophysical surveys identified buried utilities, including storm drains found throughout the parking lot connected to the New York City sewer system. No evidence of a metallic anomaly consistent with the size and shape of a UST was identified. Storm drains and electric utility

locations were marked out with spray paint prior to the commencement of drilling activities, as shown on Figure 2.

The Geophysical Investigation Report from the RI is included as Appendix D.

4.2 Soil Boring Advancement

Between April 27 and May 1, 2026, 12 soil borings (RI-SB-02 through RI-SB-04, RI-SB-06, RI-SB-07, RI-SB-09 through RI-SB-15) were advanced by Eastern Environmental Solutions, Inc (Eastern) of Manorville, New York using a Geoprobe® direct-push probe (DPP) drill rig. Between May 11 and 13, 2026, three soil borings (RI-SB-01, RI-SB-05, and RI-SB-08) were advanced by Eastern using a Geoprobe® Rotosonic drill rig. The soil boring locations are shown on Figure 2.

Soil borings that were converted to monitoring wells were advanced to approximately 5 feet below the water table (RI-SB-02 through RI-SB-04, RI-SB-06, and RI-SB-07), or down to the bedrock surface for nested well installation (RI-SB-01, RI-SB-05 and RI-SB-08). Select soil samples were collected at the depths listed in Table 2 necessary to vertically and horizontally delineate exceedances that were observed during the 2022 and 2024 Phase II Investigations.

Soil cores were obtained in a stainless steel, macro-core sampler with an internal acetate liner or dedicated plastic sleeves. At each boring, AKRF field personnel prepared NYSDEC DER-10 compliant boring logs. Prior to collecting samples, recovered soil was screened for VOCs using a photoionization detector (PID) and evaluated for visual and olfactory evidence of contamination. In accordance with the NYSDEC-approved RIWP, a minimum of four discrete (grab) samples were selected for laboratory analysis from each of the borings: one surficial soil sample (0-2 inches) from the material immediately underlying any asphalt/sub-base beneath the paved surface and the remaining sample locations were collected at the depths listed in Table C.

The eight soil boring locations that were converted into groundwater monitoring wells (RI-SB-01 through RI-SB-08) were surveyed by Fehringer Surveyors, P.C., a New York State-licensed surveyor. The remaining soil boring locations were measured surveyed using a Global Positioning System (GPS) and measured off of fixed points in the field against Site boundaries and fixed landmarks upon their completion using Fulcrum, a cloud-based field data collection and mapping platform. Lithological cross-sections are provided on Figures 4 and 5. Soil boring logs are provided in Appendix E.

4.3 Groundwater Monitoring Well Installation

Five permanent groundwater monitoring wells (RI-MW-02 through RI-MW-04, RI-MW-06, and RI-MW-07) were installed by Eastern using a Geoprobe® DPP drill rig between April 27 and May 1, 2026. Two permanent nested shallow and deep wells (RI-MW-01 and RI-MW-05) and monitoring well RI-MW-08 were installed by Eastern using a Geoprobe® Rotosonic drill rig between May 11 and 13, 2026, at the locations shown on Figure 2. A nested well was proposed at RI-MW-08; however, due to shallow bedrock, only one well was installed.

All shallow permanent groundwater monitoring wells were constructed with 10 feet of 0.020-inch slotted polyvinyl chloride (PVC) well screen installed approximately 5 feet into the observed water table. Deep permanent monitoring wells RI-MW-01D, RI-MW-05D, and RI-MW-08 were constructed with 10 feet of 0.020-inch slotted PVC well screen set immediately above the bedrock surface. A No. 2 morie sand pack was installed from the base of the well to approximately two feet above the well screens, followed by two feet of hydrated bentonite, and non-shrinking cement grout to approximately one foot below surface grade. The permanent wells were finished with a locking j-plug, locking flush-mounted protective well cover, and concrete pad.

Permanent groundwater well construction details and sampling location rationale are summarized in Table B.

Table B
Permanent Groundwater Monitoring Well Construction Details and Rationale

Monitoring Well ID	On-Site Well Location	Screened Intervals (feet below grade)	Rationale for Sampling Location
RI-MW-01S/D	Eastern	27 to 37 (RI-MW-01S) 35 to 45 (RI-MW-01D)	To vertically delineate the extent of chlorinated solvent contamination in the eastern portion of the Site, confirm PCE detections at TW-08, and determine Site-specific groundwater flow direction and elevation.
RI-MW-02	Northern	28 to 38	To evaluate potential for off-site migration of groundwater contamination, assess groundwater quality in the northern portion of the Site, and determine Site-specific groundwater flow direction and elevation.
RI-MW-03	Northeastern	25 to 35	To assess groundwater quality in the northeastern portion of the Site, confirm PCE detections at TW-01, and determine Site-specific groundwater flow direction and elevation.
RI-MW-04	Northern-central	25 to 35	To assess groundwater quality on the northern-central portion of the Site, horizontally delineate extent of chlorinated solvent contamination, and determine Site-specific groundwater flow direction and elevation.
RI-MW-05S/D	Central	27 to 37 (RI-MW-05S) 40 to 50 (RI-MW-05D)	To vertically delineate the extent of chlorinated solvent contamination in the central portion of the Site, confirm PCE detections in TW-09, and determine Site-specific groundwater flow direction and elevation.
RI-MW-06	Southwestern	28 to 38	To evaluate potential for off-site migration of groundwater contamination and determine Site-specific groundwater flow direction and elevation.
RI-MW-07	Southern	30 to 40	To assess groundwater quality on the southern portion of the Site, confirm PCE detection at TW-10, and determine Site-specific groundwater flow direction and elevation
RI-MW-08	Southern	38 to 48	To evaluate potential for off-site migration of groundwater contamination, vertically delineate the extent of chlorinated solvent contamination in the southern portion of the Site, confirm PCE detection in TW-04, and determine Site-specific groundwater flow direction and elevation.

The groundwater monitoring well locations are shown on Figure 2. Groundwater monitoring well construction logs are provided in Appendix E. Groundwater sample analytical results are discussed in Section 5.3.

4.4 Groundwater Monitoring Well Development

Following installation, each permanent groundwater monitoring well was developed via pumping and surging with a Waterra pump affixed with dedicated high-density polyethylene (HDPE) tubing and a combined check/foot valve to remove any accumulated fines and establish a hydraulic connection with the surrounding aquifer. Development water was monitored with a YSI ProDSS water quality meter during development. The goal of well development was to reduce turbidity within the well until less than 50 nephelometric turbidity units (NTUs) for three successive readings, and until water quality indicators [pH, temperature, oxidation reduction potential (ORP), dissolved oxygen, and specific conductivity] stabilized to within 10% for three successive readings. All purged groundwater was containerized in New York State Department of Transportation (NYSDOT)-approved 55-gallon drums for off-site disposal. Investigation-derived waste (IDW) is discussed in Section 4.7.9.

Groundwater monitoring well development logs are provided in Appendix F.

4.5 Groundwater Monitoring Well Elevation and Location Survey

On May 20, 2026, all permanent groundwater monitoring wells were surveyed by Fehringer Surveyors, P.C, a New York State-licensed surveyor. Elevation measurements were taken at the manhole cover, and on the north side of the top of the PVC casing at each of the groundwater monitoring wells. Horizontal datum were tied to the North American Datum of 1983 (NAD83). Vertical datum were tied to the North American Vertical Datum of 1988 (NAVD88). The groundwater elevation ranged from 18.82 to 20.3 feet NAVD. Based on the surveyed elevations, groundwater flow was in a generally southwesterly direction beneath the Site. The locations of the groundwater monitoring wells are shown on Figure 2. A groundwater elevation contour map is included as Figure 6, and groundwater elevation data is presented in Table 1. The groundwater monitoring well elevation survey for the Site is provided as Appendix G, and groundwater sampling logs are provided as Appendix H.

4.6 Temporary Soil Vapor Point Installation

Between April 27 and 29, 2026 five temporary soil vapor points (RI-SV-01 through RI-SV-05) were installed throughout the Site, at the locations shown on Figure 2. Soil vapor points RI-SV-01 through SV-05, were installed to a depth of approximately 28 feet below grade, above the water table.

The temporary soil vapor sampling points were installed by advancing an expendable drive point into the subsurface. At each point, a 6-inch stainless steel screen implant connected to Teflon™-lined polyethylene tubing was installed through the drilling rods and threaded into the drive point. The sample tubing was extended from the bottom end of the screen to above grade. The rods were then removed, and the borings were backfilled with clean silica sand above the screen. Hydrated bentonite was used to fill the remaining void around the sampling tubing to the ground surface.

The soil vapor sampling logs are provided as Appendix I and include vapor point sampling details.

4.7 Sample Collection and Chemical Analysis

Soil, groundwater, and soil vapor were sampled and evaluated in this RIR. The sampling performed, as presented below, provides a basis for the evaluation of subsurface Site conditions and potential remedial actions with respect to the media sampled.

4.7.1 Soil Sampling

Between April 27 and May 13, 2026, 80 soil samples were collected for chemical analysis in accordance with the Site-specific QAPP (included as Appendix A of the RIWP) from the soil boring locations indicated on Figure 2. In accordance with the NYSDEC-approved RIWP, a minimum of four discrete (grab) samples were selected for laboratory analysis from each of the borings: one surficial soil sample (0-2 inches) from the material immediately underlying any asphalt/sub-base beneath the paved surface and the remaining sample locations were collected at the depths listed in Table C. Additionally, at soil boring locations RI-SB-01 through RI-SB-08, soil samples were collected 2-foot interval immediately above groundwater.

Soil cores from each soil boring were collected in 5-foot-long, 2-inch-diameter, stainless steel macrocore piston rod samplers fitted with dedicated, internal acetate liners, and were field-screened using a PID equipped with an 10.6 electron volt (eV) lamp, which was calibrated at the start of each workday with 100 parts per million (ppm) isobutylene gas in accordance with the manufacturers specifications. AKRF field personnel recorded and documented subsurface conditions, and logged soil cores using the modified Burmister soil classification system. No field evidence of contamination was encountered in any of the borings. Evidence of free phase product [non-aqueous phase liquid (NAPL)] was not identified during the RI.

All equipment was properly decontaminated between each sampling location and after each use to prevent the cross-contamination of samples. Non-disposable equipment was field decontaminated by scrubbing with a non-phosphate detergent (i.e., Alconox®) and rinsing with distilled water prior to use at each sample location.

Soil samples were labeled, placed in laboratory-supplied containers, in ice-filled coolers, and submitted to the laboratory via courier with appropriate chain-of-custody documentation. Soil samples were submitted to Eurofins Environment Testing Northeast, LLC (Eurofins) of Edison, New Jersey, a New York State Department of Health (NYSDOH)-certified laboratory for analysis with Category B deliverables. Soil samples collected during the RI were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, Target Analyte List (TAL) metals by EPA Method 6000/7000 series, hexavalent chromium by EPA Method 7196A, per- and polyfluorinated compounds (PFAS) by Modified EPA 1633A, and 1,4-dioxane by EPA Method 8270.

Soil sampling locations, depths, and rationales are summarized in Table C.

Table C
Soil Boring Details and Sampling Rationale

Soil Boring	On-Site Location	Sample Depth Intervals (feet below grade)	Rationale
RI-SB-01	Eastern	0-2 inches, 0-2, 2-4, 15-17, 29.5-31.5	To support the QHHEA and evaluate soil conditions along eastern Site boundary.
RI-SB-02	Northwestern	0-2 inches, 0-2, 2-4, 15-17, 28-30	To support the QHHEA and evaluate soil conditions along northwestern Site boundary.
RI-SB-03	Eastern	0-2 inches, 0-2, 2-4, 15-17, 28-30	To vertically delineate PAH detections at SB-01.

Soil Boring	On-Site Location	Sample Depth Intervals (feet below grade)	Rationale
RI-SB-04	Northern	0-2 inches, 0-2, 2-4, 15-17, 28-30	To support the QHHEA and evaluate soil conditions in the northern footprint of the proposed building.
RI-SB-05	Central	0-2 inches, 0-2, 2-4, 15-17, 28-30	To support the QHHEA and evaluate soil conditions in the central footprint of the proposed building.
RI-SB-06	Southwestern	0-2 inches, 0-2, 2-4, 15-17, 29-31	To support the QHHEA and evaluate soil conditions along the southwestern Site boundary.
RI-SB-07	Southern	0-2 inches, 0-2, 2-4, 15-17, 33-35	To support the QHHEA and evaluate soil conditions in the southern portion of the Site.
RI-SB-08	Southeastern	0-2 inches, 0-2, 2-4, 15-17, 36-38	To support the QHHEA and evaluate soil conditions along the southeastern Site boundary.
RI-SB-09	Eastern	0-2 inches, 2-4, 4-6, 6-8, 8-10, 10-12, 12-14, 14-16, 16-18, 18-20, 20-22, 22-24, 24-26, 26-28, 28-30, 30-32 feet	To delineate extent of PAHs detected in SB-05 during the 2024 Phase II Investigation.
RI-SB-10	Eastern	0-2 inches, 4-6, 6-8, 8-10 feet	To delineate extent of PAH contamination detected in SB-15 during the 2024 Phase II Investigation.
RI-SB-11	Eastern	0-2 inches, 0-2, 2-4, 4-6 feet	To delineate extent of PAH contamination detected in SB-15 during the 2024 Phase II Investigation.
RI-SB-12	Eastern	0-2 inches, 4-6, 6-8, 8-10 feet	To delineate extent of PAH contamination detected in SB-14 during the 2024 Phase II Investigation.
RI-SB-13	Eastern	0-2 inches, 0-2, 2-4, 4-6 feet	To delineate extent of PAH contamination detected in SB-14 during the 2024 Phase II Investigation.
RI-SB-14	Central	0-2 inches, 2-4, 4-6, 15-17 feet	To support the QHHEA and evaluate soil conditions in the central portion of the Site.
RI-SB-15	Central - Southern	0-2 inches, 2-4, 4-6, 15-17 feet	To support the QHHEA and evaluate soil conditions in the southern portion of the Site.

4.7.2 Soil Quality Assurance/Quality Control (QA/QC) Sampling

For QA/QC purposes, four matrix spike/matrix spike duplicate (MS/MSD) samples, four blind duplicate samples, four aqueous field blanks, and four aqueous trip blanks were submitted for laboratory analysis with the samples collected during the RI, as discussed further in Section 5.7.7.

Soil samples were labeled, placed in laboratory-supplied containers, in ice-filled coolers, and submitted to the laboratory via courier with appropriate chain-of-custody documentation. The soil samples were analyzed by Eurofins with Category B deliverables.

Third-party data validation was performed on all soil samples by Lori A. Beyer of L.A.B Validation Corp., and Data Usability Summary Reports (DUSRs) were prepared.

DUSRs are further discussed in Section 5.7.7, and soil analytical data is discussed in Section 6.2. The soil boring locations are shown on Figure 2. Soil boring logs are provided in Appendix E.

4.7.3 Groundwater Sampling

During the RI, groundwater samples were collected from the 14 monitoring wells in accordance with EPA low flow sampling methodology, the NYSDEC guidance for *Sampling, Analysis, And Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs,* dated April 2023, and the Site-specific QAPP (included as Appendix A of the RIWP). Groundwater samples were collected using dedicated high-density polyethylene (HDPE) tubing and decontaminated sampling equipment. In accordance with EPA low-flow sampling protocols, the groundwater samples were collected a minimum of one week after well development. During the Phase II, groundwater samples were collected from six temporary 1-inch diameter monitoring wells using dedicated HDPE tubing and a peristaltic pump.

Prior to collecting the groundwater samples, the depth to groundwater and the total well depth were measured at each of the groundwater monitoring wells using an electronic oil/water interface probe attached to a measuring tape accurate to 0.01 foot. Free phase product was not detected in the groundwater monitoring wells during installation, purging, or sampling. During sampling the purge water was monitored for turbidity and water quality indicators [i.e., pH, dissolved oxygen, oxidation-reduction potential (ORP), temperature, and specific conductivity] with measurements collected approximately every five minutes. The criteria for stabilization will be three successive readings within ±10% for pH, temperature, and specific conductivity. All purge water from the groundwater monitoring wells was containerized in labeled, NYSDOT-approved 55-gallon drums for off-site disposal at a permitted facility. Disposal of IDW is further discussed in Section 5.7.9.

Groundwater samples were labeled, placed in laboratory-supplied containers, in ice-filled coolers, and submitted to the laboratory via courier with appropriate chain-of-custody documentation. Groundwater samples were submitted to Eurofins of Edison, New Jersey for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, total and dissolved TAL metals by EPA Method 6000/7000 series, PFAS by EPA Method 1633A, and 1,4-dioxane by EPA Method 8270 selected ion monitoring (SIM) with Category B deliverables. Filtering occurred in the field using a 0.45-micron field filter for the collection of dissolved TAL metals samples. Permanent groundwater well sampling for PFAS was conducted in accordance with the April 2023 NYSDEC-issued sampling protocol.

4.7.4 Groundwater Quality Assurance/Quality Control (QA/QC) Sampling

For QA/QC purposes, one MS/MSD sample, one blind duplicate sample, one aqueous field blank, one equipment blank, and one aqueous trip blank were collected and submitted with the groundwater samples. The MS/MSD, field blank, blind duplicate, and equipment blank samples were submitted for the same laboratory analyses as the accompanying groundwater samples; the trip blank was submitted for laboratory analysis of VOCs by EPA Method 8260 only.

Samples were labeled, placed in laboratory-supplied containers, in ice-filled coolers, and submitted to the laboratory via courier with appropriate chain-of-custody documentation. The laboratory samples were analyzed by Eurofins with Category B deliverables. Third-party data validation was performed on groundwater samples by Lori A. Beyer of L.A.B Validation Corp, and DUSRs were prepared.

DUSRs are further discussed in Section 5.7.7, and groundwater analytical data is discussed in Section 6.3. The groundwater well locations are shown on Figure 2. Groundwater sampling logs are provided in Appendix H.

4.7.5 Soil Vapor Sampling

Between April 27 and 29, 2026, five temporary soil vapor points (RI-SV-01 through RI-SV-05) were installed throughout the Site, at the locations shown on Figure 2. Soil vapor points were installed to a depth of approximately 28 feet below ground surface, above the water table.

Soil vapor sampling was performed in accordance with, and methodologies used for soil vapor assessment conform to the guidelines provided in the NYSDOH document entitled, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York," (October 2006, revised 2017)."

Prior to sample collection, each temporary soil vapor sampling point was purged of approximately three sample volumes using a Gilian® GilAir low-flow pump at a flow rate of approximately 0.2 liter per minute. During purging, a shroud was placed over each sampling point and helium gas was introduced to saturate the atmosphere around the sample port. Purged vapors were collected in a Tedlar® bag and field-screened for organic vapors using an 10.6 eV PID. The purged air was also monitored using a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point. All soil vapor points passed the seal integrity tests with helium detections of non-detect.

After purging, all soil vapor probes were connected via Teflon™-lined polyethylene tubing to a laboratory-supplied 6-Liter SUMMA® canister equipped with a flow regulator set to collect a sample over a two-hour sampling period. Immediately after opening the flow control valve, the initial SUMMA® canister vacuum (inches of mercury) was noted. After approximately two hours, the flow controller valve was closed, the final vacuum noted, and the canister placed in a shipping carton for delivery with appropriate chain-of-custody documentation to the laboratory. The soil vapor samples were analyzed for VOCs by EPA Method TO-15 with Category B deliverables by Eurofins of Lancaster, Pennsylvania, a NYSDOH ELAP-certified laboratory.

Soil vapor sampling locations, depths, and rationales are summarized in Table D.

Table D
Soil Vapor Sample Details

Soil Vapor Point ID	Temporary Soil Vapor Point Location	Sampling Depth (feet below ground surface)	Purged Vapor PID Reading (ppm)	Rationale For Sampling Location
RI-SV-01	Eastern	28	1.4	To delineate concentrations of VOCs on the eastern portion of the Site and evaluate the potential for off-site exposure to the east.
RI-SV-02	Northern	28	1.7	To delineate concentrations of VOCs on

Soil Vapor Point ID	Temporary Soil Vapor Point Location	Sampling Depth (feet below ground surface)	Purged Vapor PID Reading (ppm)	Rationale For Sampling Location
				the northern portion of the Site and evaluate the potential for off-site exposure to the north.
RI-SV-03	Northeastern	28	2.8	To delineate concentrations of VOCs on the northeastern portion of the Site and evaluate the potential for off-site exposure to the northeast.
RI-SV-04	Western	28	1.9	To delineate concentrations of VOCs on the western portion of the Site and evaluate the potential for off-site exposure to the west.
RI-SV-05	Southern	28	1.8	To delineate concentrations of VOCs on the southern portion of the Site and evaluate the potential for off-site exposure to the south.
Notes: ppm – parts per million				

Third-party data validation was performed by Lori A. Beyer of L.A.B Validation Corp, and DUSRs.

DUSRs are further discussed in Section 5.7.7, and soil vapor analytical data is discussed in Section 6.4. Soil vapor sample locations are shown on Figure 2. Soil vapor sampling logs are included as Appendix I.

4.7.6 Chemical Analysis

Chemical analytical work has been performed under a QA program, which is summarized in Table E.

Table E
QA Program

Factor	Description
Quality Assurance Officer	The chemical analytical QA/QC was directed by Marc Godick of AKRF.
Third Party Data Validator	The third-party data validation was performed by Lori A. Beyer, L.A.B Validation Corp
Chemical Analytical Laboratory	The chemical analytical laboratories used in the RI were Eurofins of Edison, NJ and Lancaster, PA.

Factor	Description
Chemical Analytical Methods	Soil analytical methods: • TCL VOCs by EPA Method 8260D • TCL SVOCs by EPA Method 8270E • TCL Pesticides by EPA Method 8081B • PCBs by EPA Method 8082A • TAL Metals by EPA Method 6000/7000 series • Hexavalent chromium by EPA Method 7196A • Mercury by EPA Method 6010C • 1,4-Dioxane by EPA Method 8270E • PFAS compounds by EPA Method 1633 and 537 (modified) Groundwater analytical methods: • VOCs by EPA Method 8260D • SVOCs by EPA Method 8270E • Pesticides by EPA Method 8081B • PCBs by EPA Method 8082A • TAL Metals (total and dissolved) by EPA Method 6000/7000 series • 1,4-Dioxane by EPA Method 8270E SIM • PFAS compounds by Modified EPA Method 1633 and 537 (modified) Soil vapor analytical method: • VOCs by EPA Method TO-15

4.7.7 Quality Assurance/Quality Control (QA/QC) Sampling

In accordance with DER-10 requirements, QA/QC procedures were used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analyses for this investigation. Field QA/QC procedures were used (1) to document that samples are representative of actual conditions at the Site and (2) to identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses were used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix or by laboratory techniques that may have introduced systematic or random errors to the analytical process.

QA/QC samples were analyzed at Eurofins. The third-party data validation was performed by Lori A. Beyer of L.A.B Validation Corp, and reported in DUSRs for soil, groundwater, and vapor. Laboratory analytical data sets and DUSRs are provided in Appendix J. QA/QC sampling consisted of the following:

Soil QA/QC Samples

- Four MS/MSD samples: RI-SB-09_2-4_20260427 (PFAS only), RI-SB-09_30-32_20260427 (all parameters less PFAS), RI-SB-07_15-17_20260428, RI-SB-06_29-31_20260429, and RI-SB-01_ 29.5-31.5 _20260513
- Four blind duplicate samples: RI-DUP-01_20260427 (collected from RI-SB-09_2-4_20260427 for PFAS analysis only and collected from RI-SB-09_30-32_20260427 for all parameters except PFAS), RI-DUP-02_20260428 (collected from RI-SB-07_15-17_20260428), RI-DUP-03_20260429 (collected from RI-SB-06_29-31_20260429) and RI-DUP-04_20260513 (collected from RI-SB-01_ 29.5-31.5 _20260513)

- Four trip blank samples: RI-TB-01_20260428, RI-TB-02_20260429, RI-TB-03_20260501, and RI-TB-04_20260512.
- Four field blank samples: RI-FB-01_20260428, RI-FB-02_20260429, RI-FB-03_20260501, and RI-FB-04_20260512

Groundwater QA/QC Samples

- One MS/MSD sample: RI-MW-02_20230818
- One blind duplicate sample: RI-MW-X1_20230818 (collected from RI-MW-01_20230818)
- One field blank sample: RI-FB-GW-01_20230818
- One equipment blank sample: RI-EB-GW-01_20230818
- One trip blank sample: RI-TB-GW-01_20230818

Data Validation

The DUSRs concluded that the overall assessment of the data generated was of acceptable quality. The soil, groundwater, and soil vapor DUSRs identified additional qualifiers for specific compounds, as explained in Appendix J. The data were determined to be acceptable for use with the additional data qualifiers. The qualifiers have been added to the soil, groundwater, and soil vapor data summary tables provided as Tables 2 through 15, and are summarized below:

- J: The concentration given is an estimated value.
- JK: The concentration given is an estimated value, but the result may be biased high.
- JL: The concentration given is an estimated value, but the result may be biased low.
- R: DUSR indicates the reported result is unusable. (Note: the analyte may or may not be present.)
- U: The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
- UJ: The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.

4.7.8 Results of Chemical Analyses

Laboratory data for soil, groundwater, and soil vapor samples are summarized in Tables 2A through 7B, Tables 8A through 14B, and Tables 15A and 15B, respectively. Soil sample concentrations above UUSCOs and RRSCOs, PGWSCOs and PFAS concentrations above NYSDEC guidance values are shown on Figures 7A through 7K. Groundwater sample concentrations above AWQSGVs and PFAS concentrations above NYSDEC guidance values are shown on Figures 8A through 8F. Soil vapor sample analytical results are shown on Figures 9A and 9B. Laboratory data deliverables are provided in digital form in Appendix J.

4.7.9 Management of Investigation-Derived Waste (IDW)

Handling of IDW and backfilling of boreholes was conducted in accordance with Section 3.3(e) of DER-10. IDW that did not exhibit evidence of contamination (e.g., staining, elevated PID readings, oily sheens, odors, etc.) was used to backfill the corresponding borehole that generated them to within 24 inches of the surface. All development and purge water from the investigation was containerized in NYSDOT-approved 55-gallon drums.

The drums were sealed at the end of each workday and labeled with the date, the well number, the type of waste (i.e., drill cuttings, decontamination fluids, development water, or purge water) and the name of an AKRF point-of-contact. All drums were labeled "pending analysis" until laboratory data became available. All boreholes were restored at the surface with concrete or asphalt after being backfilled. On July 8, 2026, 12 drums containing development and purge water and 10 drums containing soil cuttings were disposed of at Dale Transfer Corp. in West Babylon, NY by AARCO Environmental Services Corp., in accordance with applicable regulations. The fully executed IDW disposal manifests is included as Appendix K.

4.7.10 Deviations from the Remedial Investigation Work Plan (RIWP)

The following components of the RI deviated from the RIWP:

- Due to equipment refusal on apparent bedrock, nested monitoring wells RI-MW-01, RI-MW-05, and RI-MW-08 were not constructed with three wells. RI-MW-01 and RI-MW-05 were constructed with shallow and deep wells only (RI-MW-01S, RI-MW-01D, RI-MW-05S, and RI-MW-05D). RI-MW-08 was only installed as one well due to shallow bedrock conditions.

None of the deviations referenced above materially affected achieving the objectives of the RI.

4.8 Fish and Wildlife Impact Analysis

A fish and wildlife impact analysis was completed in accordance with NYSDEC DER-10 Appendix 3C. Based on the results of the Appendix 3C Decision Key, a Fish and Wildlife Resources Impact Analysis is not needed.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

5.1.1 Stratigraphy

The stratigraphy of the Site, from the surface down, generally consisted of a surficial layer of asphalt underlain by fill material comprised of sand, silt, and gravel with varying amounts of brick, concrete, and asphalt extending from grade to approximately 2 to 10 feet below grade. The fill material was underlain by varying amounts of apparent native sand, silt, and gravel to boring termination depths (up to 51 feet below grade). Apparent bedrock was encountered at depths ranging from approximately 47 to 51 feet below grade in borings RI-SB-01, RI-SB-05, and RI-SB-08.

5.1.2 Hydrogeology

Based on Site-specific well point measurements, groundwater beneath the Site ranges from elevation 18.82 to elevation 20.3 (NAVD88), or approximately 29.91 to 36.12 feet below grade surface across the Site. Based on the groundwater elevation data, Site-specific groundwater flow is southwesterly.

5.2 Soil Chemistry

A total of 80 soil samples were collected from borings RI-SB-01 through RI-SB-15 for laboratory analysis during the RI, and 37 soil samples were collected from borings SB-01 through SB-15 for laboratory analysis during the 2022 and 2024 Phase II investigations.

Soil samples collected during the RI were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, TAL metals by EPA Method 6000/7000 series, hexavalent chromium by EPA Method 7196A, PFAS by Modified EPA 1633A, and 1,4-dioxane by EPA Method 8270.

Soil samples collected during the 2022 and 2024 Phase II investigations were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, and TAL metals by EPA Method 6000/7000 series. One sample (SB-08_0-2_20241213) was additionally analyzed for PFAS by EPA Method 1633 and 1,4-dioxane by EPA Method 8270D.

All soil analytical results were compared to the NYSDEC 6 NYCRR Part 375 UUSCOs and RRSCOs (revised December 2025). Concentrations of chlorinated VOCs (CVOCs) in soil were additionally compared to the Part 375 Protection of Groundwater SCOs (PGWSCOs). Concentrations of PFOS and PFOA were compared to the guidance values for UUSCOs and RRSCOs presented in the April 2023 *NYSDEC Sampling, Analysis and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs*. Soil sample detections and exceedances of the abovementioned SCOs are shown on Figures 7A through 7K. Soil laboratory analytical data reports are included in Appendix J.

5.2.1 Volatile Organic Compounds (VOCs) in Soil

2026 RI Summary

VOC detections included acetone, ethylbenzene, m/p-xylene, o-xylene, PCE, and/or total xylenes in 56 of the 80 samples at concentrations up to 3.8 mg/kg. Two VOCs (PCE and acetone) were detected above the UUSCOs and PGWSCOs, but below their RRSCOs in up to two soil samples. PCE was detected in sample RI-SB-11_4-6_20260428 at a concentration of 3.8 mg/kg, above the PGWSCO of 1.3 mg/kg.

2022 and 2024 Phase II Investigations

VOCs detections included 1,2,4-trimethylbenzene, acetone, PCE, toluene, and/or TCE in 29 of the 37 samples at concentrations up to 0.16 mg/kg. Acetone was detected above the UUSCO of 0.03 mg/kg in three samples.

Table F summarizes VOC exceedances above UUSCOs and PGWSCOs in soil samples from the Phase II and RI.

Table F
VOC Concentrations in Soil Samples Above UUSCOs and PGWSCOs

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	PGWSCO (mg/kg)	Result (mg/kg)
Acetone	RI-SB-08_0-2_20260501	**0.03**	100	N/A	**0.048**
	SB-01_31-33_20221005				**0.16**
	SB-05_29-31_20221004				**0.14**
	SB-07_32-34_20221003				**0.031**
Tetrachloroethylene (PCE)	RI-SB-11_4-6_20260428	**1.3**	18	1.3	**3.8**

Notes:
mg/kg = milligrams per kilogram
Exceedances of UUSCOs are bolded.
Exceedances of RRSCOs are shaded gray.
Exceedances of PGWSCOs are underlined.

Soil analytical results for VOCs are presented in Tables 2A and 2B.

5.2.2 Semi-volatile Organic Compounds (SVOCs) in Soil

2026 RI Summary

SVOCs were detected in 48 of the 80 samples at concentrations up to 6.9 mg/kg. Nine SVOCs were detected above the UUSCOs and/or RRSCOs in shallow soil samples (0 to 6 feet bgs) collected from across the Site at concentrations ranging from 0.37 to 6.9 mg/kg.

Compounds detected above the RRSCOs include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene.

2022 and 2024 Phase II Investigations

SVOCs were detected in 27 of the 37 samples at concentrations up to 29 mg/kg. Of the detections, exceedances of the UUSCOs and RRSCOs were detected in six soil samples collected from the upper 0 to 4 feet below grade. Two exceedances of UUSCOs were detected in deeper soil samples collected above the water table.

Compounds detected above the RRSCOs include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and phenanthrene.

Table G summarizes SVOC exceedances above UUSCOs and RRSCOs in soil samples from the Phase II and RI.

Table G
SVOC Concentrations in Soil Samples Above UUSCOs or UUSCOs/RRSCOs

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	Result (mg/kg)
Benzo(a)Anthracene	RI-SB-07_0-0.17_20260428	1	1.4	**1.1**
	RI-SB-10_0-0.17_20260427			**5.2**
	RI-SB-11_4-6_20260428			**5.1**
	SB-01_0-2_20221005			**6.5**
	SB-05_0-2_20221004			**25 D**
	SB-13_0-2_20241211			**2.5**
	SB-14_0-2_20241211			**1.9**
	SB-14_2-4_20241211			**2.8**
	SB-15_2-4_20241211			**1.7**
Benzo(a)Pyrene	RI-SB-10_0-0.17_20260427	1	1	**4.9**
	RI-SB-11_4-6_20260428			**4.4**
	SB-01_0-2_20221005			**5.3**
	SB-05_0-2_20221004			**23 D**
	SB-13_0-2_20241211			**2.2**
	SB-14_0-2_20241211			**1.6**
	SB-14_2-4_20241211			**2.7**
	SB-15_2-4_20241211			**1.8**
Benzo(b)Fluoranthene	RI-SB-07_0-0.17_20260428	1	1.4	**1.5**
	RI-SB-10_0-0.17_20260427			**6.9**
	RI-SB-11_4-6_20260428			**5.7**
	SB-01_0-2_20221005			**7.1**
	SB-05_0-2_20221004			**29 D**
	SB-11_2-4_20241212			**1.1**
	SB-13_0-2_20241211			**2.9**
	SB-14_0-2_20241211			**2.2**
	SB-14_2-4_20241211			**3.8**
	SB-15_2-4_20241211			**2.5**
Benzo(g,h,i)Perylene	RI-SB-10_0-0.17_20260427	0.64	4.9	**2.6**
	RI-SB-11_4-6_20260428			**2.6**
	SB-01_0-2_20221005			**3.3**
	SB-05_0-2_20221004			**7.5**
	SB-05_29-31_20221004			**1.3**
	SB-13_0-2_20241211			**1.2**
	SB-14_0-2_20241211			**0.69**
	SB-14_2-4_20241211			**1.3**
	SB-15_2-4_20241211			**0.96**
Benzo(k)Fluoranthene	RI-SB-10_0-0.17_20260427	0.8	4.9	**2.4**
	RI-SB-11_4-6_20260428			**2**
	SB-01_0-2_20221005			**2.3**
	SB-05_0-2_20221004			**7.6**
	SB-13_0-2_20241211			**1.1**
	SB-14_0-2_20241211			**0.82**
	SB-14_2-4_20241211			**1.4**
	SB-15_2-4_20241211			**0.94**

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	Result (mg/kg)
Chrysene	RI-SB-10_0-0.17_20260427	1	4.9	**5.1**
	RI-SB-11_4-6_20260428			**5.3**
	SB-01_0-2_20221005			**6**
	SB-05_0-2_20221004			**23 D**
	SB-13_0-2_20241211			**2.4**
	SB-14_0-2_20241211			**1.8**
	SB-14_2-4_20241211			**2.8**
	SB-15_2-4_20241211			**1.7**
Dibenz(a,h)Anthracene	RI-SB-05_0-2_20260501	0.33	0.33	**0.37**
	RI-SB-10_0-0.17_20260427			**0.64 JL**
	RI-SB-11_4-6_20260428			**0.76**
	SB-01_0-2_20221005			**0.95**
	SB-05_0-2_20221004			**2.7**
Indeno(1,2,3-c,d)Pyrene	RI-SB-10_0-0.17_20260427	0.5	1.4	**2.9**
	RI-SB-11_4-6_20260428			**3**
	SB-01_0-2_20221005			**4.2**
	SB-05_0-2_20221004			**17 D**
	SB-05_29-31_20221004			**1.2**
	SB-13_0-2_20241211			**1.2**
	SB-14_0-2_20241211			**0.77**
	SB-14_2-4_20241211			**1.4**
	SB-15_2-4_20241211			**1.1**
Phenanthrene	RI-SB-08_2-4_20260501	1.1	4.9	**1.8**
	RI-SB-10_0-0.17_20260427			**6.6**
	RI-SB-11_4-6_20260428			**6.5**
	SB-01_0-2_20221005			**16 D**
	SB-05_0-2_20221004			**27 D**
	SB-11_2-4_20241212			**1.6**
	SB-13_0-2_20241211			**4.3**
	SB-14_0-2_20241211			**4.1**
	SB-14_2-4_20241211			**4.6**
	SB-15_2-4_20241211			**2**

Notes:
D = Indicates an identified compound in an analysis that has been diluted.
J = The concentration given is an estimated value.
L = Sample result is estimated and biased low.
mg/kg = milligrams per kilogram
Exceedances of UUSCOs are bolded.
Exceedances of RRSCOs are shaded gray.

Soil analytical results for SVOCs are presented in Tables 3A and 3B.

5.2.3 Polychlorinated Biphenyls (PCBs) in Soil

2026 RI Summary

PCBs were detected in one sample (RI-SB-02_0-0.17_20260429) at a concentration of 0.055 mg/kg, below the UUSCO of 0.1 mg/kg.

2022 and 2024 Phase II Investigations

PCBs were detected in one sample (SB-02_0-2_20221003) at a concentration of 0.063 mg/kg, below the UUSCO of 0.1 mg/kg.

Soil analytical results for PCBs are presented in Tables 4A and 4B.

5.2.4 Pesticides in Soil

2026 RI Summary

The pesticides cis-chlordane, P,P'-DDE, and P,P'-DDT were detected in up to 12 soil samples at concentrations up to 0.014 mg/kg. P,P'-DDT was detected above the UUSCO, but below the RRSCO in 10 samples at concentrations ranging from 0.0037 mg/kg to 0.013 mg/kg.

2022 and 2024 Phase II Investigations

The pesticides chlordane, cis-chlordane, dieldrin, P,P'-DDT, and P,P'-DDE were detected in up to five soil samples. Of these detections, cis-chlordane, P,P'-DDE, and/or P,P'-DDT were detected above the UUSCOs, but below the RRSCOs in two soil samples: SB-08_0-2_20241213 and SB-05_0-2_20221004.

Table H summarizes pesticide exceedances above the UUSCOs in soil samples from the Phase II and RI.

Table H
Pesticide Concentrations in Soil Samples Above UUSCOs

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	Result (mg/kg)
cis-Chlordane	SB-08_0-2_20241213	0.014	0.65	**0.021**
P,P'-DDE	SB-08_0-2_20241213	0.0033	3.4	**0.0036 J**
P,P'-DDT	RI-SB-04_2-4_20260427	0.0033	3.8	**0.0039**
	RI-SB-04_15-17_20260428			**0.011 J**
	RI-SB-05_0-0.17_20260501			**0.005**
	RI-SB-08_0-2_20260501			**0.013**
	RI-SB-08_2-4_20260501			**0.0091**
	RI-SB-10_0-0.17_20260427			**0.0037**
	RI-SB-10_4-6_20260427			**0.0057**
	RI-SB-11_0-0.17_20260428			**0.004 J**
	RI-SB-11_0-2_20260428			**0.0037**
	RI-SB-12_0-0.17_20260428			**0.0066**
	SB-05_0-2_20221004			**0.0063 J**
	SB-08_0-2_20241213			**0.0084**

Notes:
J = The concentration given is an estimated value.
mg/kg = milligrams per kilogram
Exceedances of UUSCOs are bolded.
Exceedances of RRSCOs are shaded gray.

Soil analytical results for pesticides are presented in Tables 5A and 5B.

5.2.5 Target Analyte List (TAL) Metals in Soil

2026 RI Summary

Metals were detected in all 80 soil samples at concentrations up to 72,000 mg/kg (calcium in sample RI-SB-08_0-0.17_20260501). Four metals (copper, lead, mercury, and zinc) were detected in soil samples across the Site above their respective UUSCOs in shallow fill material down to 6 feet below grade. Lead was detected above the RRSCO of 400 mg/kg in sample RI-SB-10_4-6_20260427 at a concentration of 4,660 mg/kg. Mercury was detected above the RRSCO of 0.3 mg/kg in sample RI-SB-02_0-0.17_20260429 at a concentration of 0.32 mg/kg.

For waste characterization purposes, samples RI-SB-02_0-0.17_20260429, RI-SB-08_2-4_20260501 RI-SB-03_0-2_20260427, RI-SB-04_2-4_20260427, RI-SB-07_0-2_20260428, RI-SB-10_4-6_20260427, RI-SB-11_4-6_20260428, and RI-SB-14_2-4_20260429 were additionally analyzed for lead by the Toxicity Characteristic Leaching Procedure (TCLP). Reported TCLP lead concentrations ranged from 44.8 to 1,150 micrograms per liter (µg/L) below the EPA hazardous waste threshold of 5,000 µg/L.

2022 and 2024 Phase II Investigations

Metals were detected in all 37 soil samples at concentrations up to 32,300 mg/kg. Four metals (copper, lead, mercury, and zinc) were detected in soil samples across the Site above their respective UUSCOs in shallow fill material down to 4 feet below grade. Concentrations ranged from 0.27 mg/kg to 283 mg/kg. Mercury was detected above the RRSCO of 0.3 mg/kg in one sample (SB-04_0-2_20221003) at a concentration of 0.59 mg/kg.

Table I summarizes metals exceedances above the UUSCOs and RRSCOs in soil samples from the Phase II and RI.

Table I
TAL Metals Concentrations in Soil Samples Above UUSCOs or UUSCOs/RRSCOs

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	Result (mg/kg)
Copper	RI-SB-02_0-0.17_20260429	50	280	**78.7**
	RI-SB-03_0-2_20260427			**64.7**
	RI-SB-10_0-0.17_20260427			**52.8**
	RI-SB-10_4-6_20260427			**68.7**
	RI-SB-11_4-6_20260428			**106**
	RI-SB-15_2-4_20260429			**56.7**
	SB-04_2-4_20241211			**50.5**
	SB-05_0-2_20221004			**63.1**
	SB-08_2-4_20241213			**62.3**
	SB-11_2-4_20241212			**52.8**
Lead	RI-SB-02_0-0.17_20260429	63	400	**216**
	RI-SB-03_0-0.17_20260427			**127**
	RI-SB-03_0-2_20260427			**132**
	RI-SB-04_2-4_20260427			**369**
	RI-SB-07_0-2_20260428			**129**
	RI-SB-08_0-2_20260501			**85.6**
	RI-SB-08_2-4_20260501			**154**

Compound	Sample ID	UUSCO (mg/kg)	RRSCO (mg/kg)	Result (mg/kg)
Lead (continued)	RI-SB-10_0-0.17_20260427	63	400	**221**
	RI-SB-10_4-6_20260427			**4,660**
	RI-SB-11_4-6_20260428			**298**
	RI-SB-14_2-4_20260429			**160**
	SB-03_0-2_20221003			**81.7**
	SB-04_0-2_20221003			**80**
	SB-04_2-4_20241211			**237**
	SB-05_0-2_20221004			**283**
	SB-07_0-2_20221003			**131**
	SB-10_0-2_20241212			**379**
	SB-11_2-4_20241212			**94.5**
	SB-12_0-2_20241211			**109**
	SB-14_0-2_20241211			**72**
	SB-14_2-4_20241211			**131**
	SB-15_2-4_20241211			**90**
Mercury	RI-SB-02_0-0.17_20260429	0.18	0.3	**0.32**
	RI-SB-10_0-0.17_20260427			**0.29**
	RI-SB-10_4-6_20260427			**0.19**
	RI-SB-11_4-6_20260428			**0.25**
	RI-SB-14_2-4_20260429			**0.25**
	SB-04_0-2_20221003			**0.59**
	SB-13_0-2_20241211			**0.27**
Zinc	RI-SB-02_0-0.17_20260429	109	6,600	**550**
	RI-SB-03_0-2_20260427			**114**
	RI-SB-04_2-4_20260427			**215**
	RI-SB-10_0-0.17_20260427			**270**
	RI-SB-10_4-6_20260427			**162**
	RI-SB-11_4-6_20260428			**253**
	RI-SB-14_2-4_20260429			**142**
	SB-04_2-4_20241211			**173**
	SB-05_0-2_20221004			**149**
	SB-11_2-4_20241212			**136**
	SB-15_2-4_20241211			**126**

Notes:
mg/kg = milligrams per kilogram
Exceedances of UUSCOs are bolded.
Exceedances of RRSCOs are shaded gray.

Soil analytical results for TAL metals are presented in Tables 6A and 6B.

5.2.6 Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane in Soil

2026 RI Summary

PFOS was detected above the NYSDEC unrestricted use guidance value of 0.88 ppb in four samples with concentrations ranging from 1.02 ppb to 2.34 ppb. PFOA was detected

above the NYSDEC unrestricted use guidance value of 0.66 ppb in two samples. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

2022 and 2024 Previous Investigations

During the 2024 Phase II investigation, one soil sample was analyzed for PFAS (SB-08_0-2_20241213). PFOS was detected above the NYSDEC unrestricted use guidance value of 0.88 ppb at a concentration of 2.17 ppb. PFOA and 1,4-dioxane were not detected above laboratory reporting limits in the soil sample.

Table J summarizes PFOA and PFOS exceedances above the guidance values for UUSCOs in soil samples from the Phase II and RI.

Table J
PFOA and PFOS Concentrations in Soil Samples Above Unrestricted Use Guidance Values

Compound	Sample ID	UUGV (ppb)	RRGV (ppb)	Result (ppb)
Perfluorooctanesulfonic acid (PFOS)	RI-SB-10_4-6_20260427	0.88	44	**1.57**
	RI-SB-10_6-8_20260427			**2.34**
	RI-SB-11_2-4_20260428			**1.02**
	RI-SB-11_4-6_20260428			**1.63**
	SB-08_0-2_20241213			**2.17 J**
Perfluorooctanoic acid (PFOA)	RI-SB-10_6-8_20260427	0.66	33	**1.54**
	RI-SB-10_8-10_20260427			**1.04**

Notes:
J = The concentration given is an estimated value.
ppb = parts per billion
Exceedances of UUGVs are bolded.
Exceedances of RRGVs are shaded gray.

Soil analytical results for PFAS are presented in Tables 7A and 7B. Soil analytical results for 1,4-dioxane are presented in Tables 3A and 3B.

5.3 Groundwater Chemistry

A total of 10 groundwater samples were collected from permanent monitoring wells RI-MW-01 through RI-MW-08 for laboratory analysis during the RI, and seven groundwater samples were collected from temporary monitoring wells TW-01 through TW-04 and TW-08 through TW-10 for laboratory analysis during the 2022 and 2024 Phase II investigations.

Groundwater samples collected during the RI were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, total and dissolved TAL metals by EPA Method 6000/7000 series, PFAS by Modified EPA 1633A, and 1,4-dioxane by EPA Method 8270 selective ion monitoring (SIM). The samples collected from the deep intervals for the clustered wells (RI-MW-01D and RI-MW-05D) were only analyzed for VOCs by EPA Method 8260.

Groundwater samples collected during the 2022 and 2024 Phase II investigations were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, and total/dissolved TAL metals by EPA Method 6000/7000 series.

All groundwater analytical results were compared to the NYSDEC Class GA AWQSGVs. Concentrations of PFOS and PFOA were compared to the human health criteria guidance values

presented in the April 2023 NYSDEC Sampling, Analysis and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs. Groundwater sample detections and exceedances of the AWQSGVs are shown on Figures 8A through 8F. Groundwater laboratory analytical data reports are included in Appendix J.

5.3.1 Volatile Organic Compounds (VOCs) in Groundwater

2026 RI Summary

The VOCs acetone, chloroform, cis-1,2-dichloroethene, dichlorobromomethane, PCE, and/or TCE were detected in all 10 groundwater samples at concentrations ranging from 0.27 µg/L to 860 µg/L (PCE in sample RI-MW-03_20260513). Chloroform, cis-1,2-dichloroethene, PCE, and/or TCE were detected above the AWQSGVs in all groundwater samples.

2022 and 2024 Phase II Investigations

The VOCs acetone, benzene, bromodichloromethane, chloroform, cis-1,2-dichloroethene, dibromochloromethane, m,p-xylenes, methyl ethyl ketone, methylene chloride, PCE and/or TCE were detected in all seven groundwater samples at concentrations ranging from 0.3 µg/L to 330 µg/L (PCE in sample TW-04_20221004).

Table K summarizes VOC exceedances above the AWQSGVs in groundwater samples from the Phase II and RI.

Table K
VOC Concentrations in Groundwater Samples Above AWQSGVs

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Chloroform	RI-MW-01D_20260520	7	8.1
	RI-MW-03_20260513		18
	RI-MW-05S_20260520		23
	RI-MW-06_20260513		9.8
	RI-MW-X_20260513		9.2
	TW-04_20221004		9.2
Cis-1,2-Dichloroethylene	RI-MW-02_20260513	5	14
	RI-MW-03_20260513		55
	RI-MW-04_20260513		7
	RI-MW-05S_20260520		7.2
	RI-MW-06_20260513		53
	RI-MW-X_20260513		52
	RI-MW-07_20260513		6.8
	TW-01_20221005		14
	TW-02_20221003		6.7
Tetrachloroethylene (PCE)	RI-MW-01D_20260520	5	22
	RI-MW-01S_20260520		43
	RI-MW-02_20260513		350
	RI-MW-03_20260513		860
	RI-MW-04_20260513		600
	RI-MW-05D_20260520		12
	RI-MW-05S_20260520		120
	RI-MW-06_20260513		480

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Tetrachloroethylene (PCE) (continued)	RI-MW-X_20260513	5	480
	RI-MW-07_20260513		160
	RI-MW-08S_20260520		15
	TW-01_20221005		100
	TW-02_20221003		19
	TW-03_20221004		100
	TW-04_20221004		330
	TW-08_20241213		60
	TW-09_20241213		270
	TW-10_20241213		310
Trichloroethylene (TCE)	RI-MW-03_20260513	5	49
	RI-MW-06_20260513		12
	RI-MW-X_20260513		12
Notes: µg/L = micrograms per liter RI-MW-X_20260513 is a blind duplicate of sample RI-MW-06_20260513.			

Groundwater analytical results for VOCs are presented in Tables 8A and 8B.

5.3.2 Semi-volatile Organic Compounds (SVOCs) in Groundwater

2026 RI Summary

SVOCs were not detected above the laboratory reporting limits in any of the groundwater samples.

2022 and 2024 Phase II Investigations

Thirteen SVOCs were detected in up to five groundwater samples at concentrations ranging from 0.1 to 98 µg/L. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, and indeno(1,2,3-c,d)pyrene were detected in sample TW-01_20221005 at concentrations above the AWQSGVs as summarized in Table L.

Table L summarizes SVOC exceedances above the AWQSGVs in groundwater samples from the Phase II.

Table L
SVOC Concentrations in Groundwater Samples Above AWQSGVs

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Benzo(a)Anthracene	TW-01_20221005	0.002	2.1
Benzo(a)Pyrene	TW-01_20221005	ND	1.6
Benzo(b)Fluoranthene	TW-01_20221005	0.002	2.2
Bis(2-Ethylhexyl) Phthalate	TW-01_20221005	5	6.2
Chrysene	TW-01_20221005	0.002	2
Indeno(1,2,3-c,d)Pyrene	TW-01_20221005	0.002	1.6 J
Notes: J = The concentration given is an estimated value. ND = The standard is a non-detectable concentration by the approved analytical method. µg/L = micrograms per liter			

As the groundwater samples from the Phase II were collected from temporary wells, the SVOC detections are likely from sediment entrained in the sample and not from a release. Groundwater analytical results for SVOCs are presented in Tables 9A and 9B.

5.3.3 Polychlorinated Biphenyls (PCBs) in Groundwater

PCBs were not detected above laboratory reporting limits in any of the groundwater samples analyzed for the 2026 RI, or 2022 and 2024 Phase II investigations.

Groundwater analytical results for PCBs are presented in Tables 10A and 10B.

5.3.4 Pesticides in Groundwater

Pesticides were not detected above laboratory reporting limits in any of the groundwater samples analyzed for the 2026 RI, or 2022 and 2024 Phase II investigations.

Groundwater analytical results for pesticides are presented in Tables 11A and 11B.

5.3.5 Metals in Groundwater

2026 RI Summary

In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for manganese and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for iron, manganese, and sodium, up to 169,000 µg/L.

2022 and 2024 Phase II Investigations

In the filtered (dissolved) groundwater samples, there were exceedances of the AWQSGVs for iron, magnesium, manganese, and sodium. In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for arsenic, barium, beryllium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, sodium, thallium, and zinc up to 971,000 µg/L.

Table M summarizes total metals exceedances above the AWQSGVs in groundwater samples. Table N summarizes dissolved metals exceedances above the AWQSGVs in groundwater samples from the Phase II and RI.

Table M
Total Metals Concentrations in Groundwater Samples Above AWQSGVs

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Arsenic	TW-01_20221005	25	63.9
	TW-09_20241213		73.3
	TW-10_20241213		28.6
Barium	TW-01_20221005	1,000	3,540
	TW-08_20241213		1,620
	TW-09_20241213		4,580
	TW-10_20241213		1,700
Beryllium	TW-01_20221005	3	14.2
	TW-08_20241213		4.6
	TW-09_20241213		14
	TW-10_20241213		6.6
Chromium, Total	TW-01_20221005	50	3,390
	TW-08_20241213		303

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
	TW-09_20241213		1,350
	TW-10_20241213		429
Copper	TW-01_20221005	200	1,340
	TW-08_20241213		319
	TW-09_20241213		1,000
	TW-10_20241213		419
Iron	RI-MW-04_20260513	300	839
	RI-MW-07_20260513		1,670
	RI-MW-08S_20260520		393
	TW-01_20221005		971,000
	TW-03_20221004		1,660
	TW-04_20221004		4,430
	TW-08_20241213		185,000
	TW-09_20241213		667,000
	TW-10_20241213		292,000
Lead	TW-01_20221005	25	857
	TW-08_20241213		88.4
	TW-09_20241213		707
	TW-10_20241213		113
Magnesium	RI-MW-01S_20260520	35,000	40,100
	RI-MW-08S_20260520		43,000
	TW-01_20221005		355,000
	TW-03_20221004		47,500
	TW-08_20241213		164,000
	TW-09_20241213		370,000
	TW-10_20241213		295,000
Manganese	RI-MW-05S_20260520	300	408
	TW-01_20221005		24,600
	TW-02_20221003		439
	TW-04_20221004		1,090
	TW-08_20241213		9,530
	TW-09_20241213		18,400
	TW-10_20241213		7,990
Mercury	TW-01_20221005	0.7	1.7
	TW-09_20241213		1.1
Nickel	TW-01_20221005	100	922
	TW-08_20241213		270
	TW-09_20241213		814
	TW-10_20241213		303
Sodium	RI-MW-01S_20260520	20,000	123,000
	RI-MW-02_20260513		151,000
	RI-MW-03_20260513		32,800
	RI-MW-04_20260513		165,000
	RI-MW-05S_20260520		103,000
	RI-MW-06_20260513		147,000

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
	RI-MW-X_20260513		158,000
Sodium (continued)	RI-MW-07_20260513	20,000	169,000
	RI-MW-08S_20260520		106,000
	TW-01_20221005		74,600
	TW-02_20221003		140,000
	TW-03_20221004		128,000
	TW-04_20221004		109,000
	TW-08_20241213		82,900
	TW-09_20241213		122,000
	TW-10_20241213		123,000
Thallium	TW-01_20221005	0.5	5.1
	TW-08_20241213		0.61 J
	TW-09_20241213		1.6
	TW-10_20241213		0.75 J
Zinc	TW-01_20221005	2,000	2,640
	TW-09_20241213		2,040

Notes:
J = The concentration given is an estimated value.
µg/L = micrograms per liter
RI-MW-X_20260513 is a blind duplicate of sample RI-MW-06_20260513.

Table N
Dissolved Metals Concentrations in Groundwater Samples Above AWQSGVs

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Iron	TW-03_20221004	300	492
	TW-04_20221004		1,630
Magnesium	RI-MW-01S_20260520	35,000	38,700
	RI-MW-08S_20260520		41,400
	TW-03_20221004		45,900
Manganese	RI-MW-05S_20260520	300	418
	TW-02_20221003		450
	TW-04_20221004		1,020
	TW-09_20241213		412
Sodium	RI-MW-01S_20260520	20,000	119,000
	RI-MW-02_20260513		150,000
	RI-MW-03_20260513		31,700
	RI-MW-04_20260513		160,000
	RI-MW-05S_20260520		103,000
	RI-MW-06_20260513		158,000
	RI-MW-X_20260513		168,000
	RI-MW-07_20260513		164,000
	RI-MW-08S_20260520		99,700
	TW-01_20221005		35,300

Compound	Sample ID	AWQSGVs (µg/L)	Result (µg/L)
Sodium (continued)	TW-02_20221003	20,000	141,000
	TW-03_20221004		127,000
	TW-04_20221004		107,000
	TW-08_20241213		87,500
	TW-09_20241213		134,000
	TW-10_20241213		97,700
Notes: µg/L = micrograms per liter RI-MW-X_20260513 is a blind duplicate of sample RI-MW-06_20260513.			

Groundwater analytical results for metals are presented in Tables 12A through 13B.

5.3.6 Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane in Groundwater

2026 RI Summary

PFOS was detected above its NYSDEC guidance value of 2.7 parts per trillion (ppt) in all eight groundwater samples, and the blind duplicate. PFOA was detected above its NYSDEC guidance value of 6.7 ppt in in all eight groundwater samples, and the blind duplicate. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

2022 and 2024 Phase II Investigations

The groundwater samples were not analyzed for PFAS. 1,4-Dioxane was not detected above laboratory reporting limits in any of the soil samples.

Table O summarizes the PFOS and PFOA exceedances above the NYSDEC guidance values in groundwater samples from the RI.

Table O
PFOA and PFOS Concentrations in Groundwater Samples Above the NYSDEC Guidance Values

Compound	Sample ID	AWQSGVs (ppt)	Result (ppt)
Perfluorooctanesulfonic acid (PFOS)	RI-MW-01S_20260520	2.7	11.3
	RI-MW-02_20260513		14
	RI-MW-03_20260513		13.4
	RI-MW-04_20260513		13.5
	RI-MW-05S_20260520		11.8
	RI-MW-06_20260513		5.75 J
	RI-MW-X_20260513		10.5 J
	RI-MW-07_20260513		7.29
	RI-MW-08S_20260520		8.28

Compound	Sample ID	AWQSGVs (ppt)	Result (ppt)
Perfluorooctanoic acid (PFOA)	RI-MW-01S_20260520	6.7	36.8
	RI-MW-02_20260513		40.7
	RI-MW-03_20260513		23
	RI-MW-04_20260513		39.9
	RI-MW-05S_20260520		24
	RI-MW-06_20260513		24.8 J
	RI-MW-X_20260513		43.9 J
	RI-MW-07_20260513		33.7
	RI-MW-08S_20260520		32.3

Notes:
J = The concentration given is an estimated value.
ppt = parts per trillion
RI-MW-X_20260513 is a blind duplicate of sample RI-MW-06_20260513.

Groundwater analytical results for PFAS compounds are presented in Table 14A. Groundwater analytical results for 1,4-dioxane are presented in Tables 9A and 9B.

5.4 Soil Vapor Air Chemistry

5.4.1 Soil Vapor Analytical Results

During the RI, five temporary soil vapor points (RI-SV-01 through RI-SV-05) were installed throughout the Site to approximately 28 feet, ranging from approximately 1.91 (RI-SV-02) to 7.3 (RI-SV-05) feet above the water table. During the 2022 and 2024 Phase II Investigations, eight soil vapor points (SV-01 through SV-07 and SV-11) were installed do depths between 2 and 14 feet below grade.

Although there are currently no regulatory or published guidance values for VOCs in soil vapor, soil vapor data was used to assess the potential for exposure to receptors and to help define the nature and extent of contamination at the Site. The soil vapor samples were analyzed for VOCs by EPA Method TO-15. Soil vapor samples were compared to the Soil Vapor/Indoor Air Decision Matrices A through F, as detailed in the May 2017 and February 2024 updates to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion. Since indoor air samples were not collected as part of the RI (and could not be collected since there are no structures on-site), the results were conservatively compared to the soil vapor matrix concentrations that correspond to a recommended action of "Mitigate," regardless of the corresponding indoor air concentrations.

2026 RI Summary

Thirty-one VOCs analyzed for were detected in the soil vapor samples. Solvent-related VOCs (including bromodichloromethane, chloroform, chloromethane, cis-1,2-dichloroethene, methylene chloride, PCE, TCE, trans-1,2-dichloroethene, and trichlorofluoromethane) were detected in the soil vapor samples at individual concentrations up to 12,000 µg/m^3 from a diluted analysis (PCE in sample SV-02_20210825).

Other VOCs, including compounds typically associated with petroleum [such as 1,2,4-trimethylbenzene, 1,3-butadiene, 2,2,4-trimethylpentane, 1,3-dichlorobenzene, 4-methyl-2-pentanone, carbon disulfide, cyclohexane, methyl butyl ketone, methyl ethyl ketone, n-butane, n-heptane, n-hexane, tert-butyl alcohol, benzene, toluene, ethylbenzene, and m,p-

and-o-xylenes (collectively referred to as BTEX)], were detected in the soil vapor samples at individual concentrations up to 150 µg/m^3 from a diluted analysis (m,p-xylene in sample RI-SV-03_20260429).

When compared to the NYSDOH Decision Matrices, cis-1,2-dichloroethene, PCE, and TCE were detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples RI-SV-02_20260429, RI-SV-03_20260429, and RI-SV-04_20260429.

2022 and 2024 Phase II Investigations

In the 2022 and 2024 Phase II investigations, petroleum-related VOCs, including 1,3-butadiene, 2,2,4-trimethylpentane, benzene, butane, cyclohexane, methyl ethyl ketone, n-heptane, n-hexane, styrene, and toluene were detected at concentrations up to 66 µg/m^3 (butane in sample SV-07_20241213).

Solvent-related VOCs, including carbon disulfide, chloroform, cis-1,2-dichloroethylene, PCE, and TCE were detected at concentrations up to 1,900 µg/m^3 (PCE in sample SV-04_20221003).

When compared to the NYSDOH Decision Matrices, cis-1,2-dichloroethene was detected above the lowest level requiring mitigation, regardless of indoor air concentration in samples SV-01_20221004 and SV-02_20221003, and SV-03_20221004. PCE was detected above the lowest level requiring mitigation, regardless of indoor air concentration in sample SV-04_20221003.

Soil vapor sample detections are shown on Figures 9A and 9B. Soil vapor analytical results are summarized in Tables 15A and 15B.

6.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT (QHHEA)

The objective of the QHHEA is to identify potential receptors and pathways for human exposure to the contaminants of concern (COC) that are present at, or migrating from, the Site. The identification of exposure pathways describes the route that the COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur.

The RI, as described in this RIR, is sufficient to complete a QHHEA. The QHHEA was performed to determine whether the Site poses an existing or future health hazard to the Site's exposed or potentially exposed population. The sampling data from the RI was evaluated to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This QHHEA was prepared in accordance with Appendix 3B and Section 3.3 (c) 4 of the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation.

6.1 Contaminants of Concern (COCs) in Respective Media

Based on the results of previous Phase II Investigations and this RI, the COCs include the following:

Soil

- The VOCs acetone and PCE were detected at concentrations above the UUSCOs, but below RRSCOs. PCE was also detected above the PGWSCO.
- PAHs were detected at concentrations above UUSCOs and RRSCOs.
- The pesticides cis-chlordane, P,P'-DDE, and P,P'-DDT were detected at concentrations above UUSCOs, but below RRSCOs.
- The metals copper and zinc were detected at concentrations above UUSCOs, but below RRSCOs. Lead and mercury were detected at concentrations above UUSCOs and RRSCOs.
- PFOA and PFOS were detected at concentrations above the NYSDEC guidance value for Unrestricted Use.

Groundwater

- The VOCs chloroform, cis-1,2-dichloroethene, PCE, and TCE were detected at concentrations above the AWQSGVs.
- The metals iron, magnesium, manganese, and sodium in the filtered (dissolved) groundwater samples were detected at concentrations above their respective AWQSGVs.
- The metals arsenic, barium, beryllium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, sodium, thallium, and zinc in the total (unfiltered) groundwater samples were detected at concentrations above their respective AWQSGVs.
- PFOA and PFOS were detected at concentrations above the NYSDEC guidance values.

Soil Vapor

- Petroleum- and chlorinated solvent-related VOCs were detected in soil vapor.

6.2 Conceptual Model of Site Contamination

Based on an evaluation of the data and information in this RIR, the Site is contaminated with: VOCs, SVOCs, pesticides, metals, PFOA, and PFOS in soil; VOCs, metals, PFOA, and PFOS in groundwater; and solvent- and petroleum-related VOCs in soil vapor.

The elevated concentrations of SVOCs, pesticides, metals, PFOA, and PFOS in soil are likely related to the presence of shallow fill material within the soil. Chlorinated solvents (PCE, cis-1,2-dichloroethene, and chloroform) in soil, groundwater and soil vapor indicate the possible presence of an on-site release. Solvent-related and petroleum-related VOCs were detected at varying concentrations in the soil vapor samples collected from the Site.

Exceedances in soil were generally found in the shallow fill layer, with few hits extending to the groundwater table including one PAH (benzo(g,h,i)perylene) detected in SB-05 from 29 to 31 feet bgs in the eastern portion of the Site. PCE was detected above regulatory limits in shallow fill material in one sample from 4 to 6 feet bgs in boring RI-SB-11 in the eastern portion of the Site. PCE was detected at trace concentrations in the remainder of the site. PCE was detected above its AQWSGV in all groundwater samples collected during the 2022 and 2024 Phase IIs and the 2026 RI with the highest concentration in permanent groundwater monitoring well RI-MW-03 in the northeastern portion of the Site. PCE was detected in soil vapor Site wide with the greatest concentration in RI-SV-03 in the northern portion of the Site. The PFOA/PFOS exceedances in groundwater were generally detected site-wide. Elevated concentrations of chlorinated solvent-related and petroleum VOCs in soil vapor were detected site-wide. Based on the proximity of the elevated soil vapor concentrations to the boundaries of adjacent properties, the potential for off-site migration of soil vapor exists.

6.3 Potential Routes of Exposure

The five elements of an exposure pathway are:

1. The source of contamination;
2. The environmental media and transport mechanisms;
3. The point of exposure;
4. The route of exposure; and
5. The receptor population.

These elements of an exposure pathway may be based on past, present, or future events. An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway cannot be documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future.

6.4 Exposure Route

An exposure route is the mechanism by which a receptor comes into contact with a chemical. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill, and/or soil;
- Dermal contact with water, fill, soil, and/or building materials; and
- Inhalation of vapors and/or particulates.

6.5 Potential Receptors

The Site currently consists of a municipal, asphalt-paved parking lot and is not developed with any permanent structures. Nearby potential receptors include residences and commercial properties. The anticipated future use of the Site is residential with street-level retail space.

On-site Receptors: The Site is currently accessible to the public. During redevelopment of the Site, the on-site potential sensitive receptors will include construction workers and inspectors. Once the Site is redeveloped, the on-site potential sensitive receptors will include residents, employees, and community members.

Off-site Receptors: Potential off-site receptors within a 0.25-mile radius of the Site include adult and child residents, commercial and construction workers, pedestrians, and cyclists, based on the following:

1. Commercial Businesses – existing and future
2. Residential Buildings – existing and future
3. Building Construction/Renovation – existing and future
4. Pedestrians, Cyclists – existing and future
5. Day Care Facility(ies) – future
6. Schools – existing and future

As there are no uncapped soils on-site, it is unlikely that on- and off-site receptors will be exposed to subsurface soil and fill. Occupied structures are located adjacent to the Site to the north, east, and south. It is unknown whether groundwater contamination is migrating off-site; however, groundwater in this portion of Queens is not used as a potable source.

6.6 Existence of Human Health Exposure Pathways

This evaluation consists of the following components: contaminant source; contaminant release and transport mechanism; point of exposure; route of exposure; and receptor population.

The Site is currently vacant and capped with asphalt pavement. As such, there are currently no potential exposure pathways. Additionally, with no Site occupants or on-site structures, inhalation of contaminants via soil vapor intrusion is not currently a concern. Groundwater is not used for drinking or other potable purposes in this portion of Queens, and the Site is served by a public water supply that is not affected by Site contamination.

Once redevelopment activities begin (currently anticipated to begin in January 2027), there will be a potential exposure pathway from construction workers and inspectors coming into direct contact with subsurface soil and fill as a result of construction and excavation activities. In addition, on-site construction workers could potentially inhale particulates from any exposed contaminated soil and fill. Similarly, off-site receptors could be exposed to particulates and vapors from on-site activities.

Once redevelopment of the Site has been completed (assuming no remediation), there could be a potential exposure pathway from the potential off-gassing of residual organic vapors in the soil and/or groundwater through cracks or openings in the foundations of the new building.

6.7 Overall Human Health Exposure Assessment

The Site currently consists of an asphalt-paved parking lot and is not developed with any permanent structures. As such, there are currently no potential exposure pathways. The entirety of the Site is capped with asphalt pavement, which is in good to fair condition. Additionally, with no Site occupants, inhalation of contaminants via soil vapor intrusion is not currently a concern. Once redevelopment activities begin, there will be a potential exposure pathway from contaminated surface soil/fill to construction workers, as these workers could potentially inhale or have dermal contact with any exposed contaminated fill or soil; however, this will be mitigated with proper

implementation of a CAMP that will prevent migration of particulates and VOCs, and a HASP that will dictate safe practices including the wearing of personal protective equipment.

Without remediation, once redevelopment of the Site has been completed, there could be a potential exposure pathway from the potential off-gassing of residual organic vapors in the soil and/or groundwater through cracks or openings in the foundations.

VOCs were detected in soil vapor across the Site. The Site is bounded to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. Occupied structures are located adjacent to the Site to the north, east, and south and soil vapor intrusion into adjacent buildings may be a concern; however, it is unknown at this time.

Regional groundwater flow is westerly and based on the groundwater elevation data, Site-specific groundwater flow is southwesterly. It is unknown at this time if groundwater contamination is migrating off-site. The contaminants identified in groundwater primarily consisted of VOCs, SVOCs, metals, PFOA, and PFOS. Groundwater is not used for drinking or other potable purposes in this part of Queens. The Site is served by a public water supply that is not affected by Site contamination.

Based on the results of the QHHEA, a NYSDEC-approved Remedial Action Work Plan (RAWP), which includes a HASP to protect on-site workers, should be implemented during remedial action to ensure that the potential exposure pathways identified do not become complete. The HASP will include a CAMP compliant with Appendices 1A and 1B of DER-10. The RAWP should address the contaminated soil/fill at the Site and the installation/implementation of certain engineering and/or institutional controls (ECs and/or ICs, respectively).

7.0 CONCLUSIONS

This RIR summarizes the investigation work performed between April 27 and May 13, 2026, and during prior Phase II Investigations conducted in 2022 and 2024. The goal of the RI was to determine the horizontal and vertical extent of contamination identified during the 2002 and 2024 environmental investigations performed at the Site by AKRF, and to aid in the design of the remedy. The RI was conducted in general accordance with AKRF's March 2026 RIWP, which included a HASP and a QAPP.

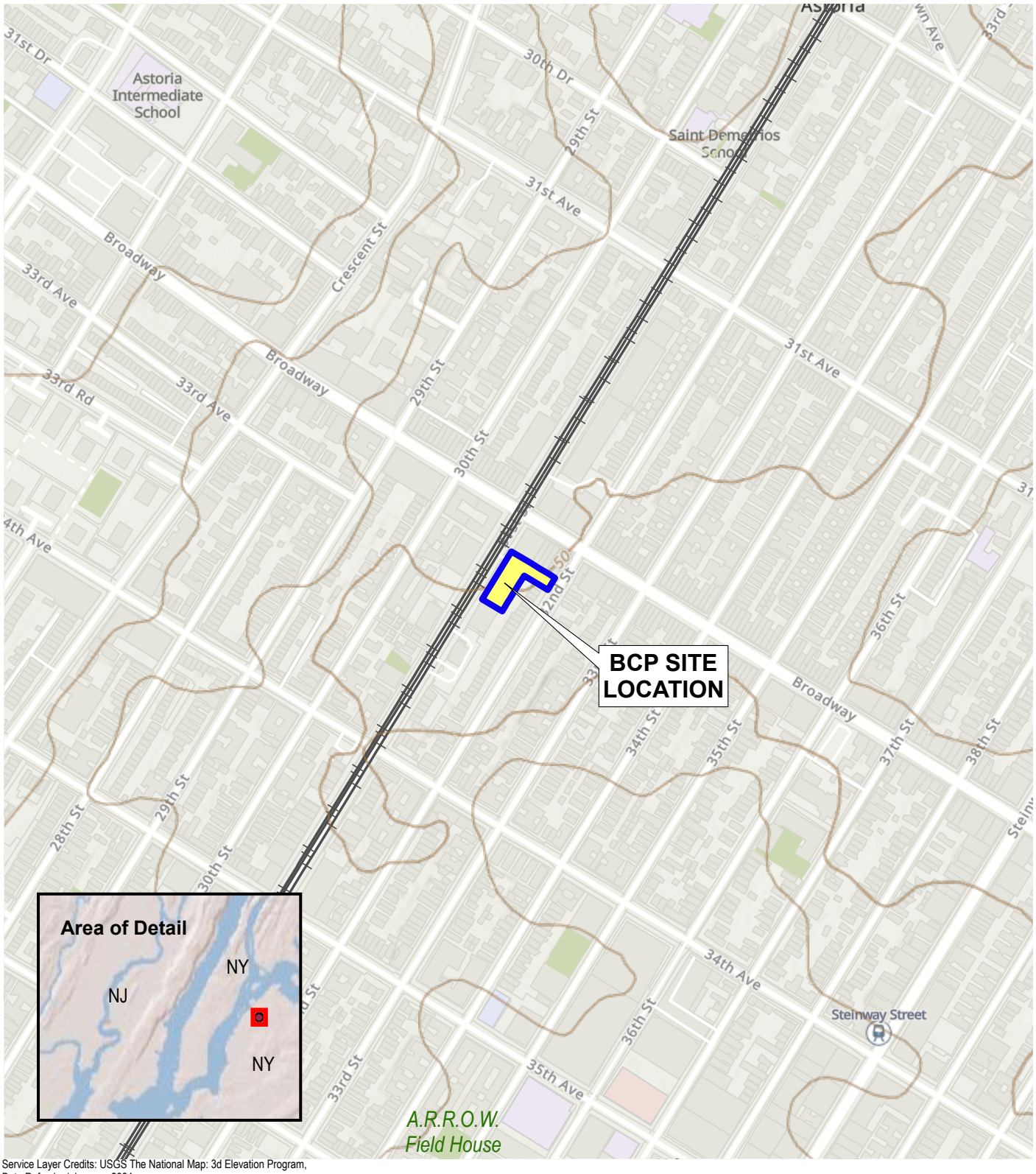
Based on the RI and Phase II results, the nature and extent of contaminated soil, groundwater, and soil vapor present at the Site has been determined. The COCs at the Site include: VOCs, SVOCs, pesticides, metals, PFOA, and PFOS in soil above the UUSCOs and/or RRSCOs and PGWSCOs (chlorinated VOCs only); VOCs, metals, PFOA, and PFOS in groundwater above the AWQSGVs; and chlorinated solvent- and petroleum-related VOCs in soil vapor.

This RI documented fill Site-wide from surface grade down to approximately 2 to 10 feet below grade. The fill/soil contained elevated concentrations of SVOCs, pesticides, metals, and PFOA/PFOS. In addition, PCE was detected in shallow soil above the PGWSCO, but below the RRSCO in one soil sample. SVOCs were detected at elevated levels in shallow soil down to 6 feet below grade, except for one sample collect at 29-31 feet below grade. Metals were detected primarily in shallow samples throughout the Site at elevated concentrations, but were detected in deeper samples at lower concentrations. PFAS was detected across the Site at variable concentrations down to approximately 32 feet below grade, the deepest sample interval collected for laboratory analysis.

Solvent-related VOCs were detected at elevated concentrations in groundwater samples collected across the Site. Metals detections are likely naturally occurring and related to regional groundwater conditions. The presence of PFAS in groundwater is likely the result of regional groundwater conditions. In addition, petroleum and chlorinated-solvent related VOCs were detected at elevated concentrations in all soil vapor samples collected.

The RI data suggests that groundwater and/or soil vapor contamination may potentially be migrating off-site.

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed January, 2024

0 500 1,000
SCALE IN FEET

N

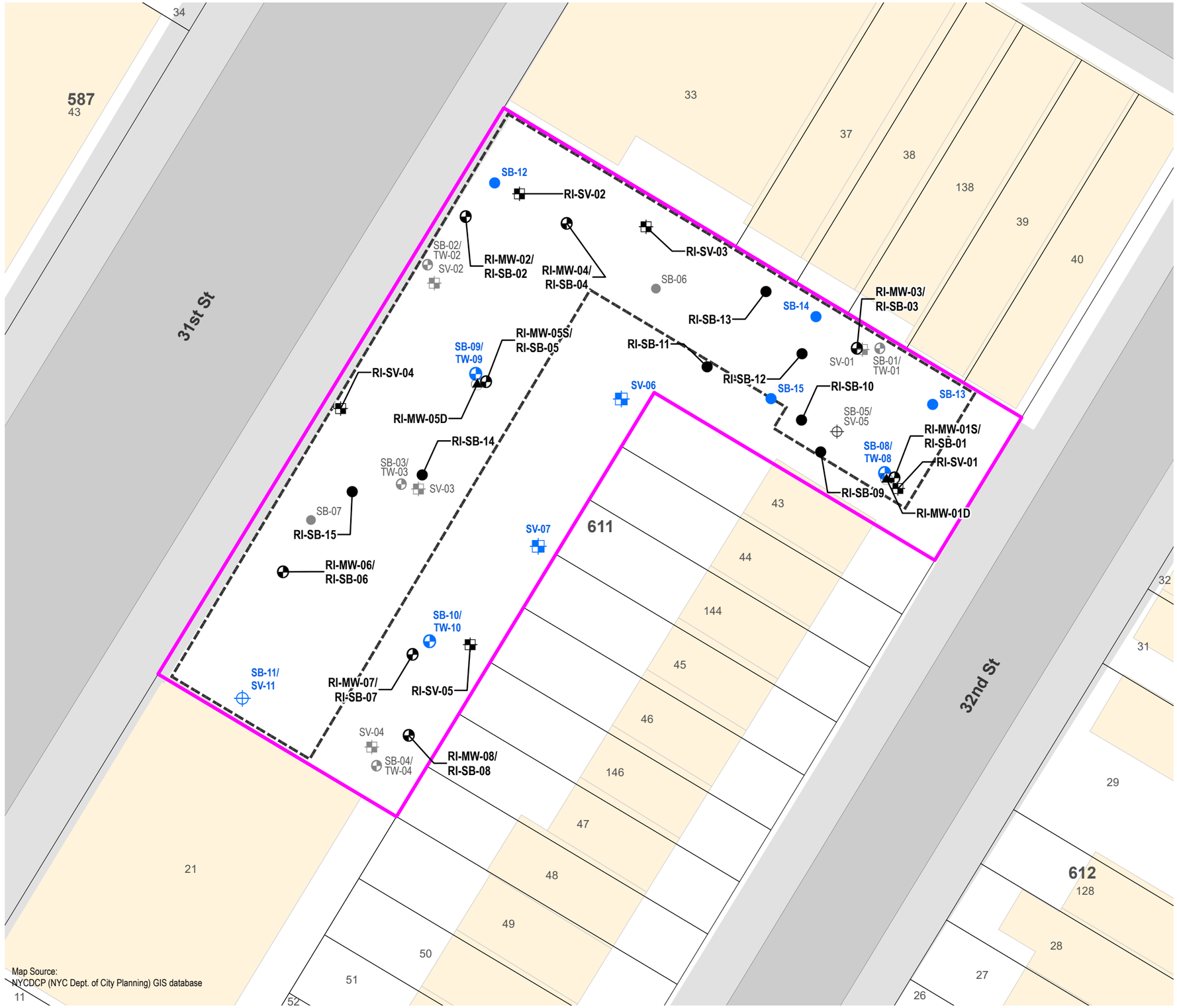
AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures.aprx10/17/2025 7:37 AM240854 Fig 1 Site Locationjszalus

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

BCP SITE LOCATION

DATE
7/2/2026
PROJECT NO.
240854
FIGURE
1



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

N

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- PROPOSED BUILDING
- 2022 PHASE II SOIL BORING
- 2022 PHASE II SOIL BORING/ SOIL VAPOR POINT
- 2022 PHASE II SOIL VAPOR POINT
- 2022 PHASE II SOIL BORING/ TEMPORARY WELL
- 2024 PHASE II SOIL BORING
- 2024 PHASE II SOIL BORING/ SOIL VAPOR POINT
- 2024 PHASE II SOIL BORING/ TEMPORARY WELL
- 2024 PHASE II SOIL VAPOR POINT
- RI SOIL BORING
- RI SOIL BORING/MONITORING WELL
- RI MONITORING WELL
- RI SOIL VAPOR POINT

0 15 30 60
SCALE IN FEET

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440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

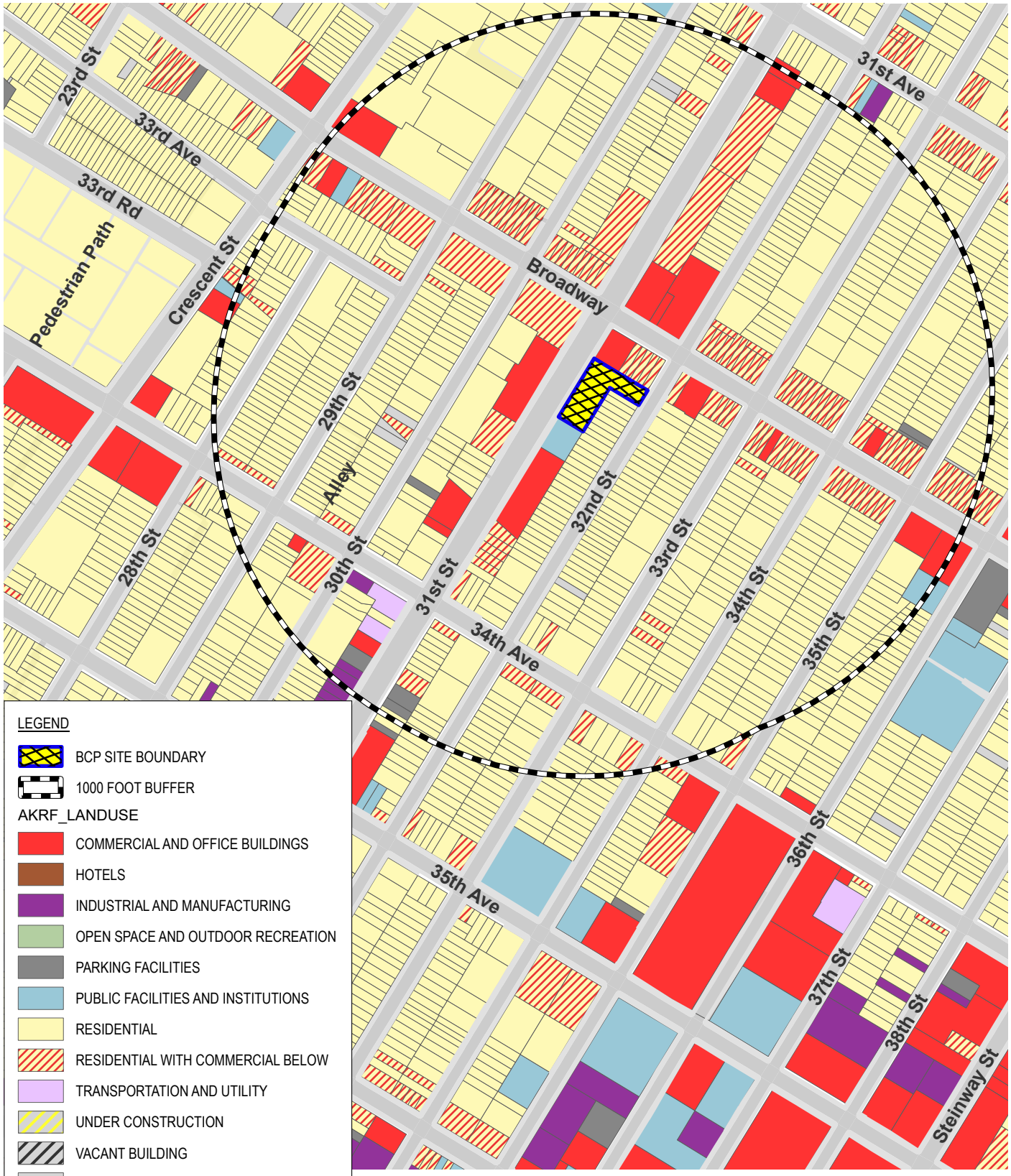
BCP SITE AND SAMPLE LOCATION PLAN

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
2

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc aprx 7/21/2026 8:39 AM 240854 Fig 2 BCP Site and Sample Location Plan jszalus



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures all others.aprx7/7/2026 9:24 PM240854 Fig 3 Surrounding Land Usejszalus

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440 Park Avenue South, New York, NY 10016

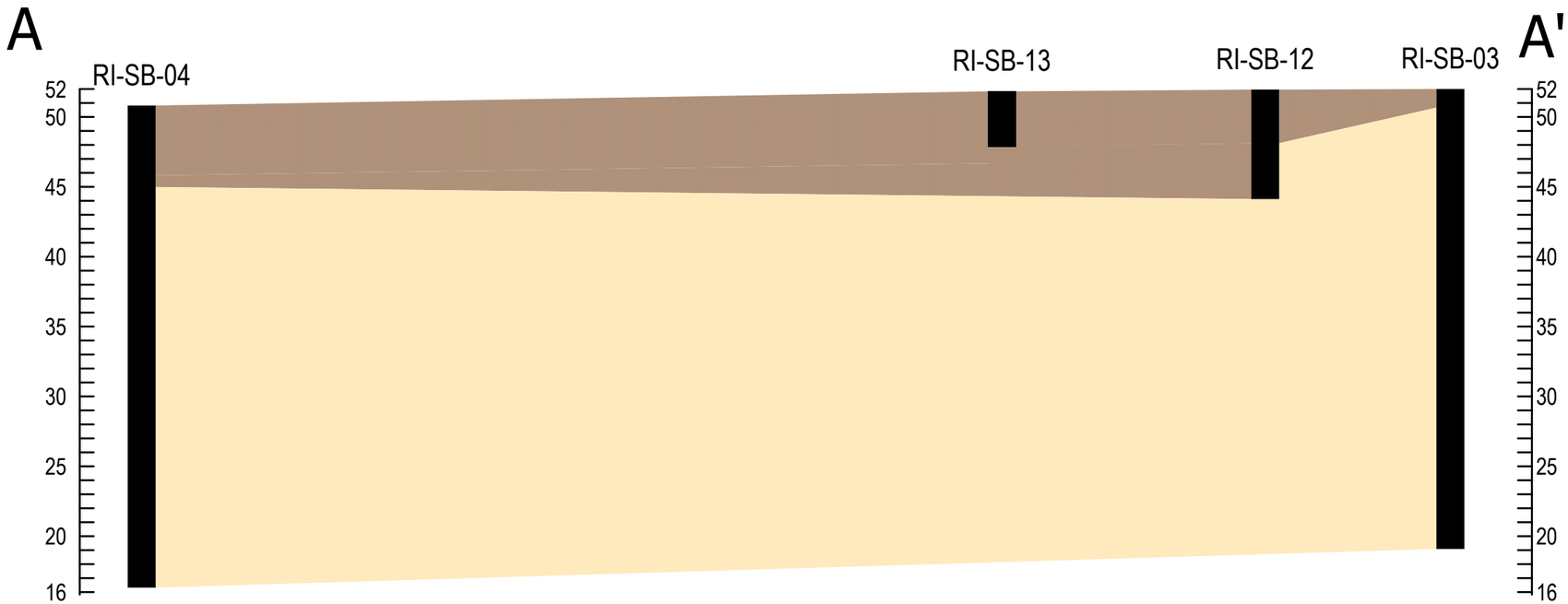
32-11 31st Street
Queens, New York

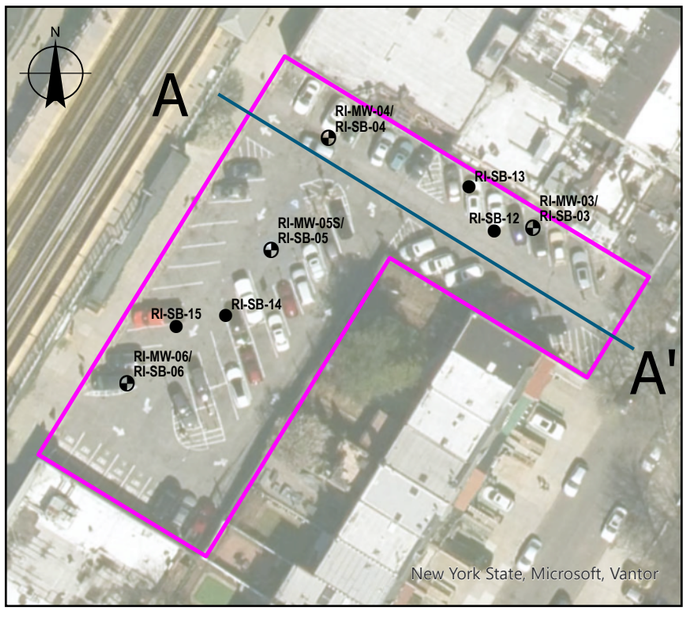
SURROUNDING LAND USE

DATE
7/7/2026

PROJECT NO.
240854

FIGURE
3





Key Plan

LEGEND

- FILL
- NATIVE SAND
- SOIL BORING
- ELEVATION IN FEET

0 5 10 20 Feet

NOTES
Elevations are shown in reference to NAVD88

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32-11 31st Street
Queens, New York

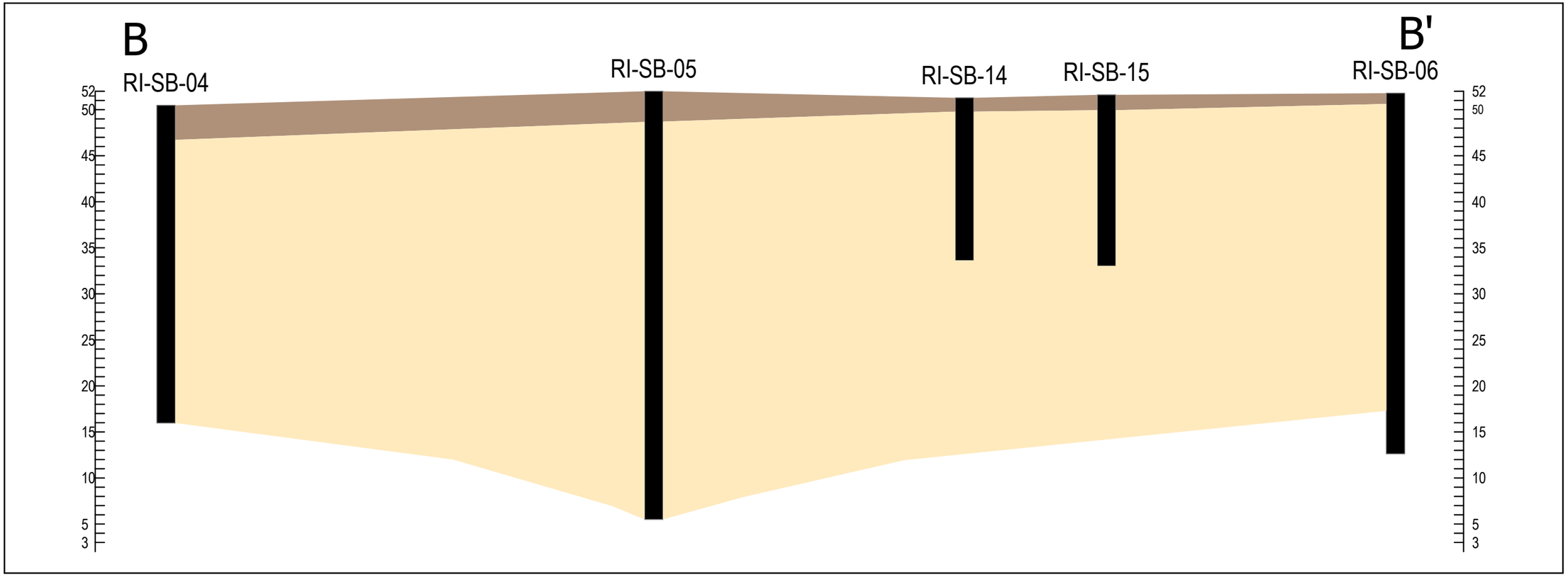
EAST-WEST LITHOLOGY CROSS SECTION

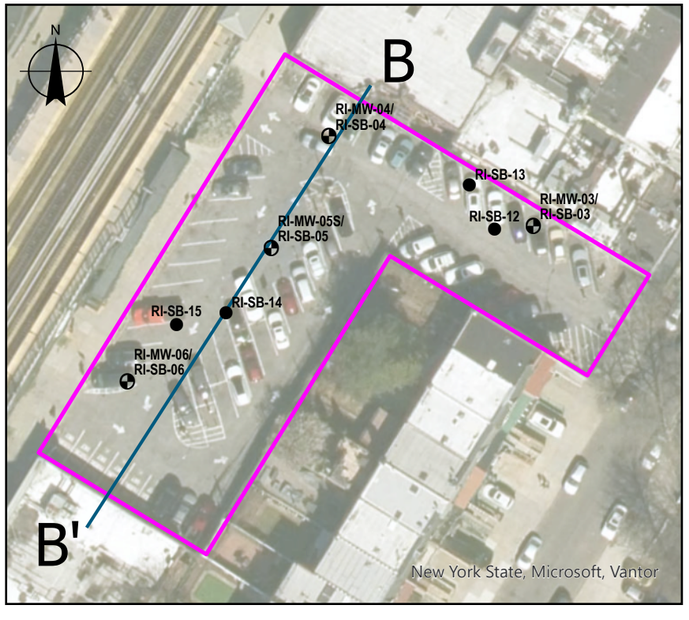
DATE
7/22/2026

PROJECT NO.
240854

FIGURE
4

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures GW SV etc.aprx 7/22/2026 1:02 PM240854 Fig 4 Lithological Cross Section – East_West jszalus





Key Plan

LEGEND

- SOIL BORING
- FILL
- NATIVE SAND
- ELEVATION IN FEET

0 5 10 20 Feet

NOTES
Elevations are shown in reference to NAVD88

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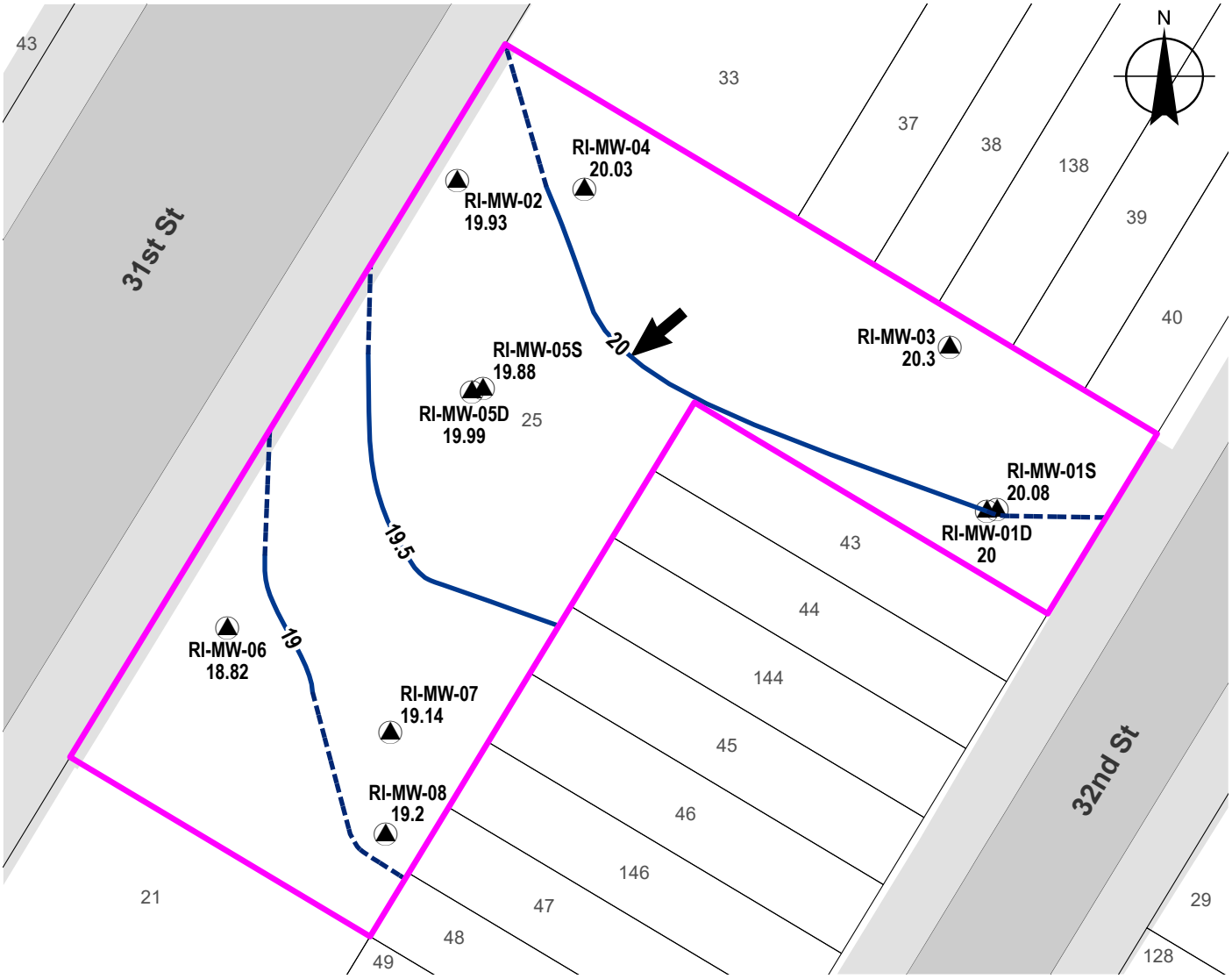
NORTH-SOUTH LITHOLOGY CROSS SECTION

DATE
7/22/2026

PROJECT NO.
240854

FIGURE
5

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures GW SV etc.aprx 7/22/2026 1:02 PM240854 Fig 5 Lithological Cross Section – North_South jszalus



LEGEND

- BCP SITE BOUNDARY
- MONITORING WELL WATER TABLE ELEVATION IN FEET (NAVD 88)
- INFERRED MONITORING WELL WATER TABLE ELEVATION IN FEET (NAVD 88)
- MONITORING WELL ID WITH GROUNDWATER ELEVATION IN FEET
- APPROXIMATE GROUNDWATER FLOW DIRECTION

0 40 80

SCALE IN FEET

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

Well ID	Top of Casing Elevation (ft.)	Depth to Groundwater (ft. below TOC)	Groundwater Elevation (ft.)
RI-MW-01S	51.68	31.6	20.08
RI-MW-01D	51.69	31.69	20.00
RI-MW-02	49.84	29.91	19.93
RI-MW-03	51.58	31.28	20.3
RI-MW-04	50.32	30.29	20.03
RI-MW-05S	51.95	32.07	19.88
RI-MW-05D	51.59	31.6	19.99
RI-MW-06	51.61	32.79	18.82
RI-MW-07	54.17	35.03	19.14
RI-MW-08	55.32	36.12	19.2

Notes:

ft. = feet

TOC = top of casing

Elevation = feet above mean sea level based on the North American Vertical Datum of 1988 (NAVD88).

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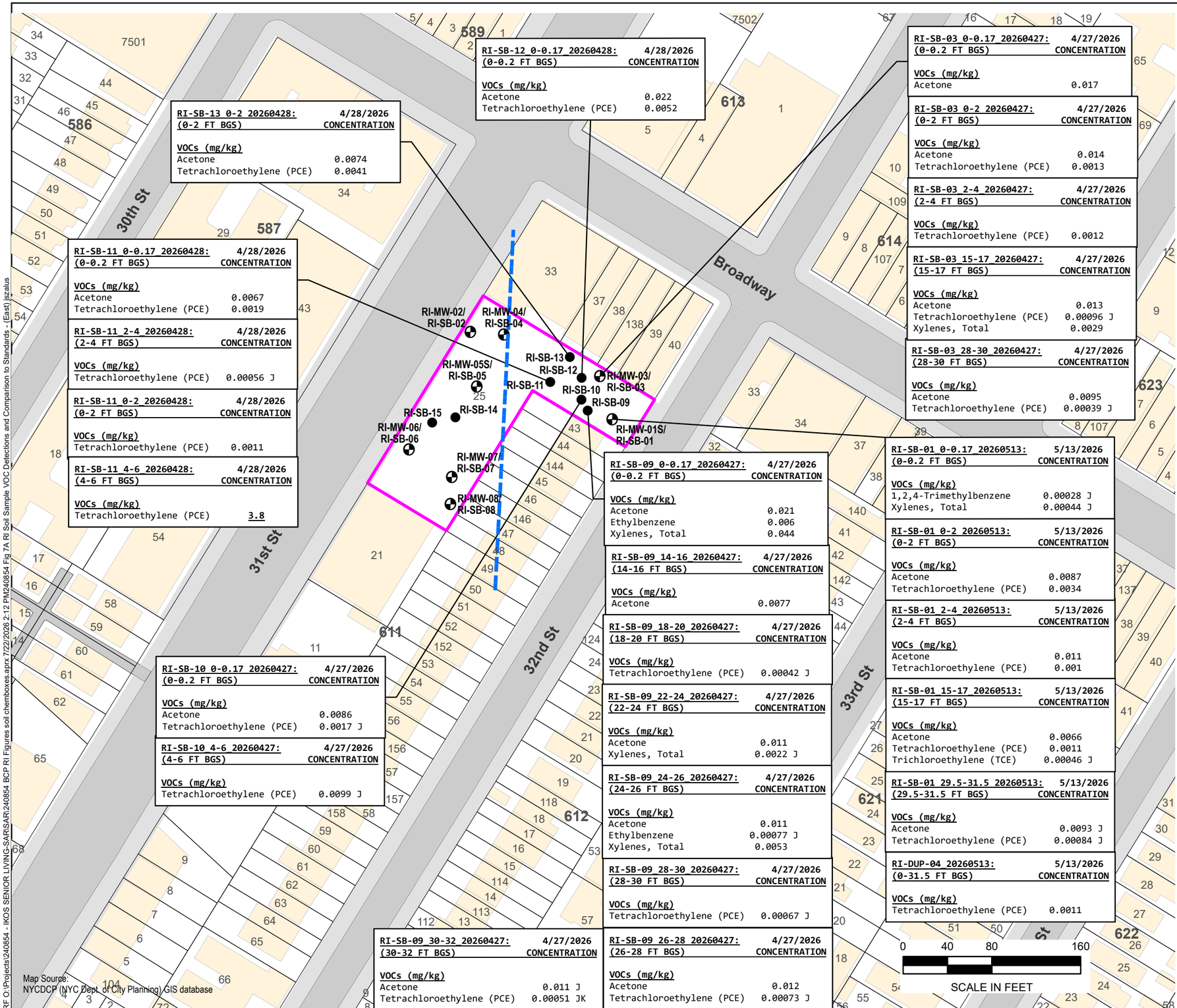
GROUNDWATER ELEVATION CONTOURS
MAY 2026

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
6

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx7/21/2026 5:20 PM240854 Fig 6 Groundwater Contour Map May 2026|szalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- EAST/WEST HALF OF SITE
- SOIL BORING
- SOIL BORING/MONITORING WELL

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

Exceedances of NYSDEC Protected Groundwater Soil Cleanup Objectives (PGWSCOs) are presented in underlined font.

mg/kg: milligrams per kilogram = parts per million (ppm)

J: The concentration given is an estimated value.
K: Reported concentration value is proportional to dilution factor and may be exaggerated.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
VOCs		
Acetone	100	0.03
Tetrachloroethylene (PCE)	18	1.3

Sample ID — Sample Date

RI-SB-07 33-35 20260428: 4/28/2026
(33-35 FT BGS) CONCENTRATION
VOCs (mg/kg)
Tetrachloroethylene (PCE) 0.001 J

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

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Queens, New York

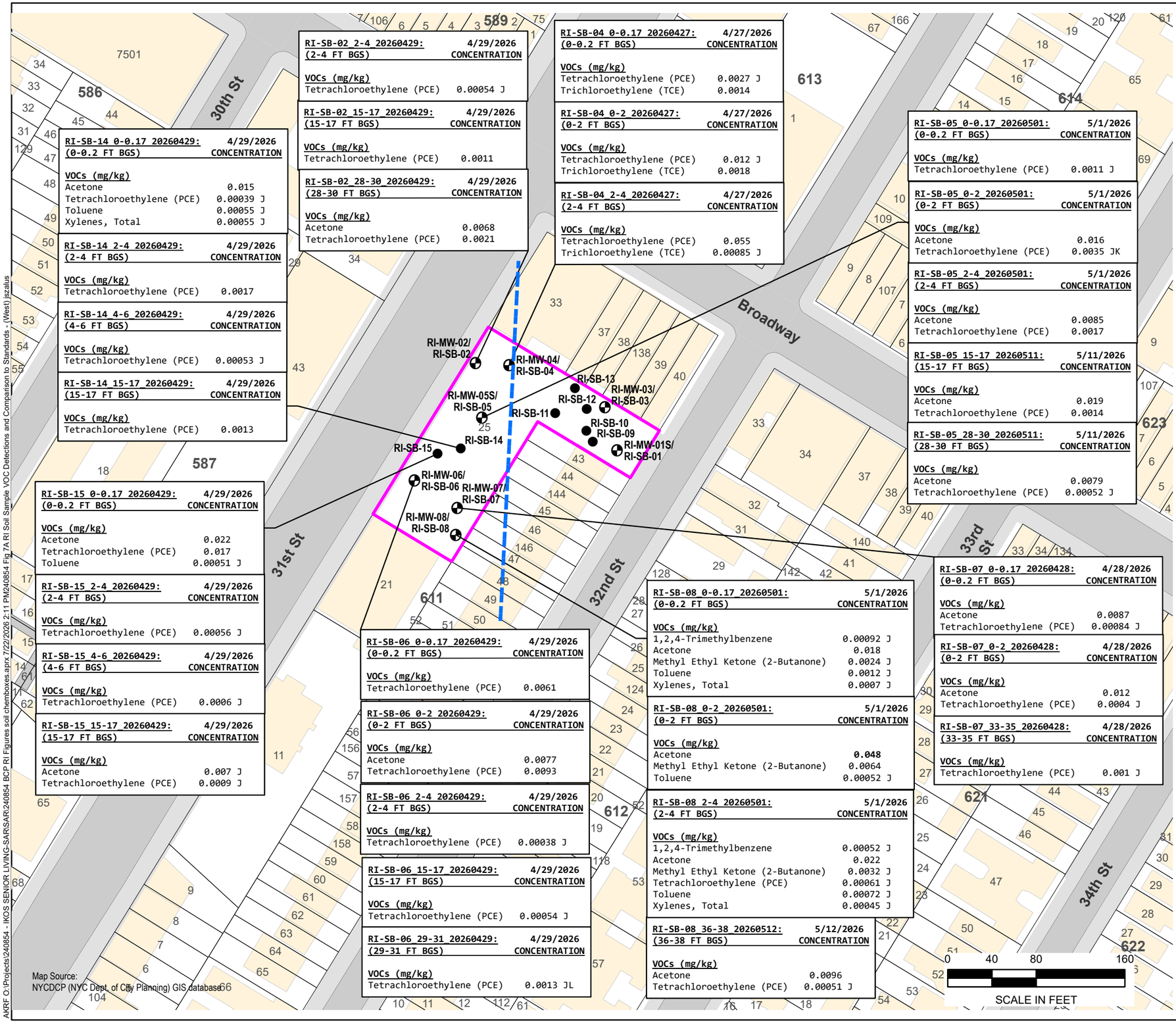
RI SOIL SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS - (EAST)

DATE
7/22/2026

PROJECT NO.
240854

FIGURE
7A

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/22/2026 2:12 PM240854 Fig 7A RI Soil Sample VOC Detections and Comparison to Standards - (East) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- 2389 BLOCK NUMBER
- EAST/WEST HALF OF SITE
- SOIL BORING
- SOIL BORING/MONITORING WELL

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

Exceedances of NYSDEC Protected Groundwater Soil Cleanup Objectives (PGWSCOs) are presented in underlined font.

mg/kg: milligrams per kilogram = parts per million (ppm)

J: The concentration given is an estimated value.
L: Sample result is estimated and biased low.
K: Reported concentration value is proportional to dilution factor and may be exaggerated.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
VOCs		
Acetone	100	0.03
Tetrachloroethylene (PCE)	18	1.3

Sample ID — Sample Date

RI-SB-07 33-35 20260428: 4/28/2026
(33-35 FT BGS) CONCENTRATION
VOCs (mg/kg)
Tetrachloroethylene (PCE) 0.001 J

Analyte/Compound — Concentration

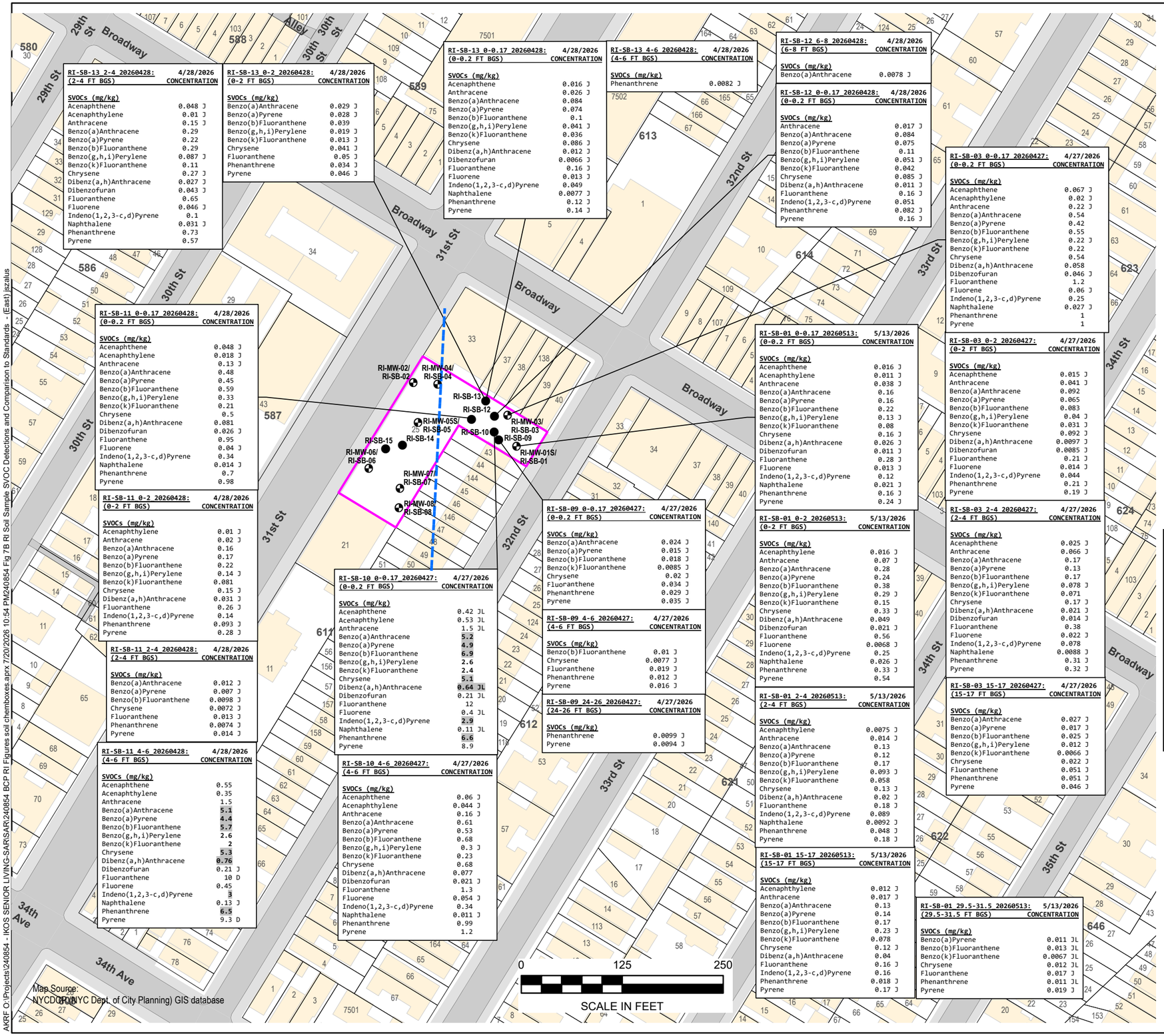
akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

RI SOIL SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS - (WEST)

DATE 7/22/2026
PROJECT NO. 240854
FIGURE 7A

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chamboxes.aprx 7/22/2026 2:11 PM 240854 Fig 7A RI Soil Sample VOC Detections and Comparison to Standards - (West) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- EAST/WEST HALF OF SITE

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
L: Sample result is estimated and biased low..
D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1

Sample ID — Sample Date

RI-SB-09 24-26 20260427: 4/27/2026
(24-26 FT BGS) CONCENTRATION

SVOCs (mg/kg)
Phenanthrene 0.0099 J
Pyrene 0.0094 J

Analyte/Compound — Concentration

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32-11 31st Street
Queens, New York

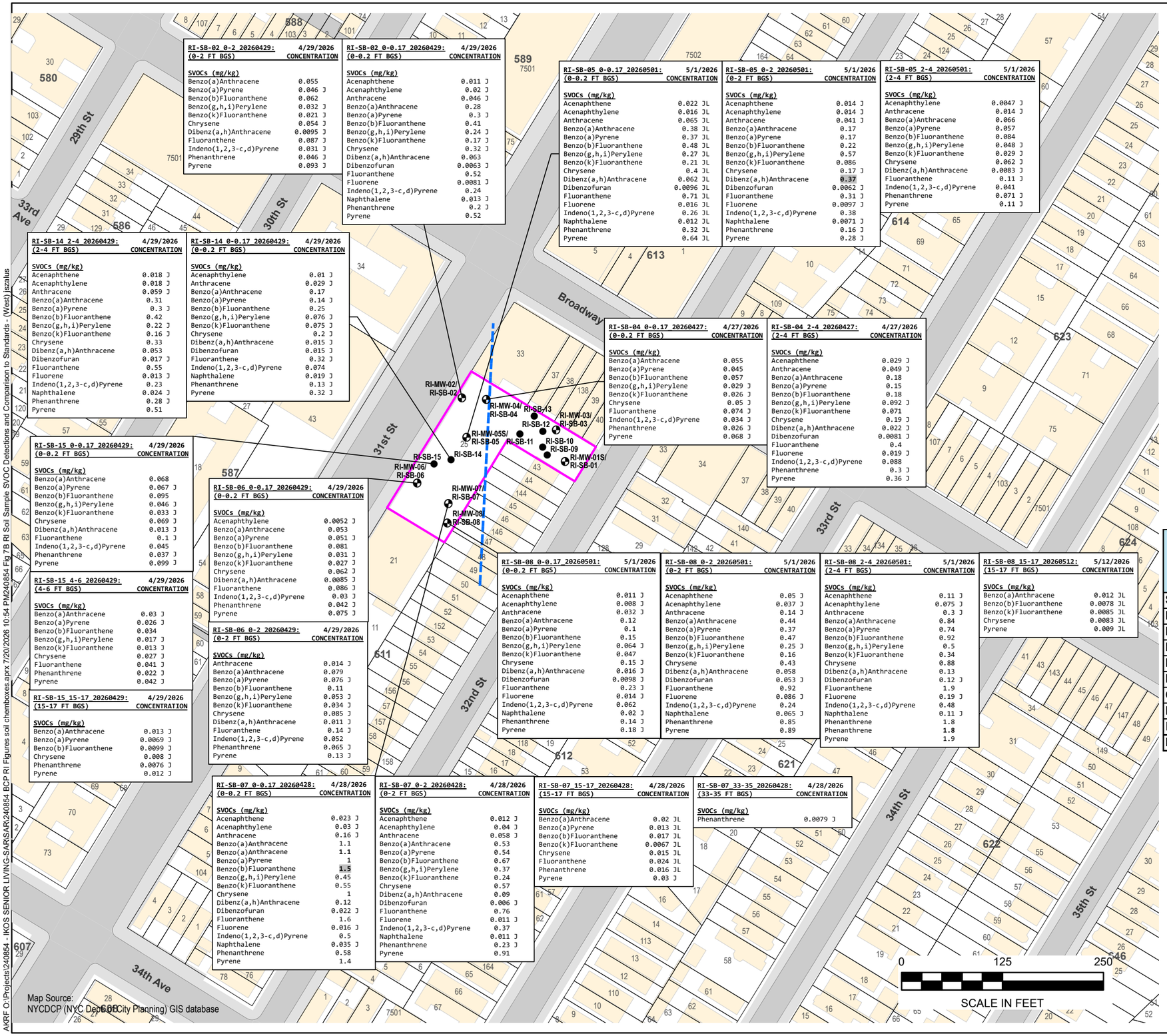
RI SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS - (EAST)

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
7B

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 10:54 PM240854 Fig 7B RI Soil Sample SVOC Detections and Comparison to Standards - (East) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- EAST/WEST HALF OF SITE

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
L: Sample result is estimated and biased low.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1

Sample ID — Sample Date

RI-SB-09 24-26 20260427: (24-26 FT BGS) 4/27/2026 CONCENTRATION

SVOCs (mg/kg)

Analyte/Compound	Concentration
Phenanthrene	0.0099 J
Pyrene	0.0094 J

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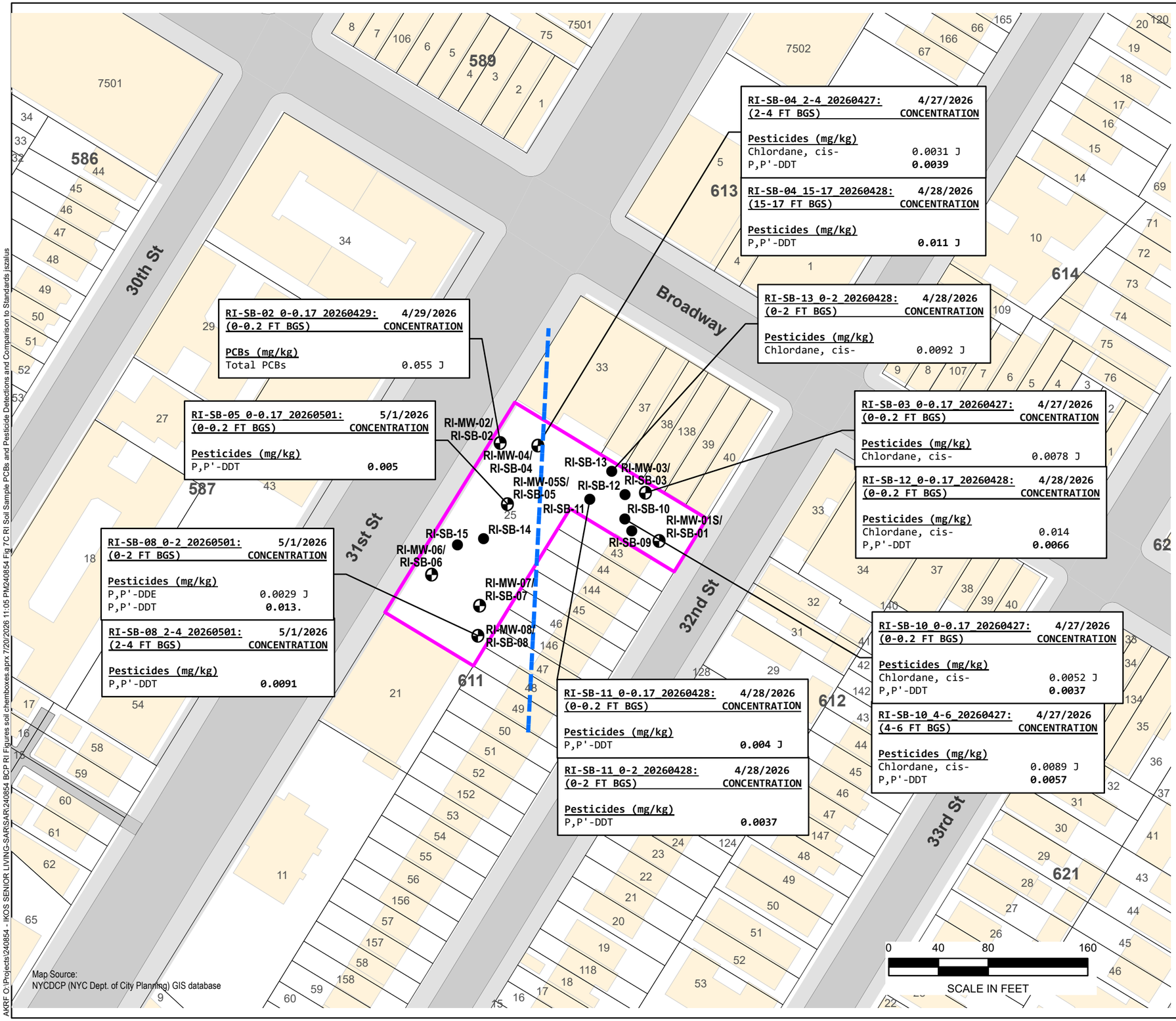
32-11 31st Street
Queens, New York

RI SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS - (WEST)

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
7B



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- EAST/WEST HALF OF SITE

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Pesticides		
P,P'-DDT	3.8	0.0033

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

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32-11 31st Street
Queens, New York

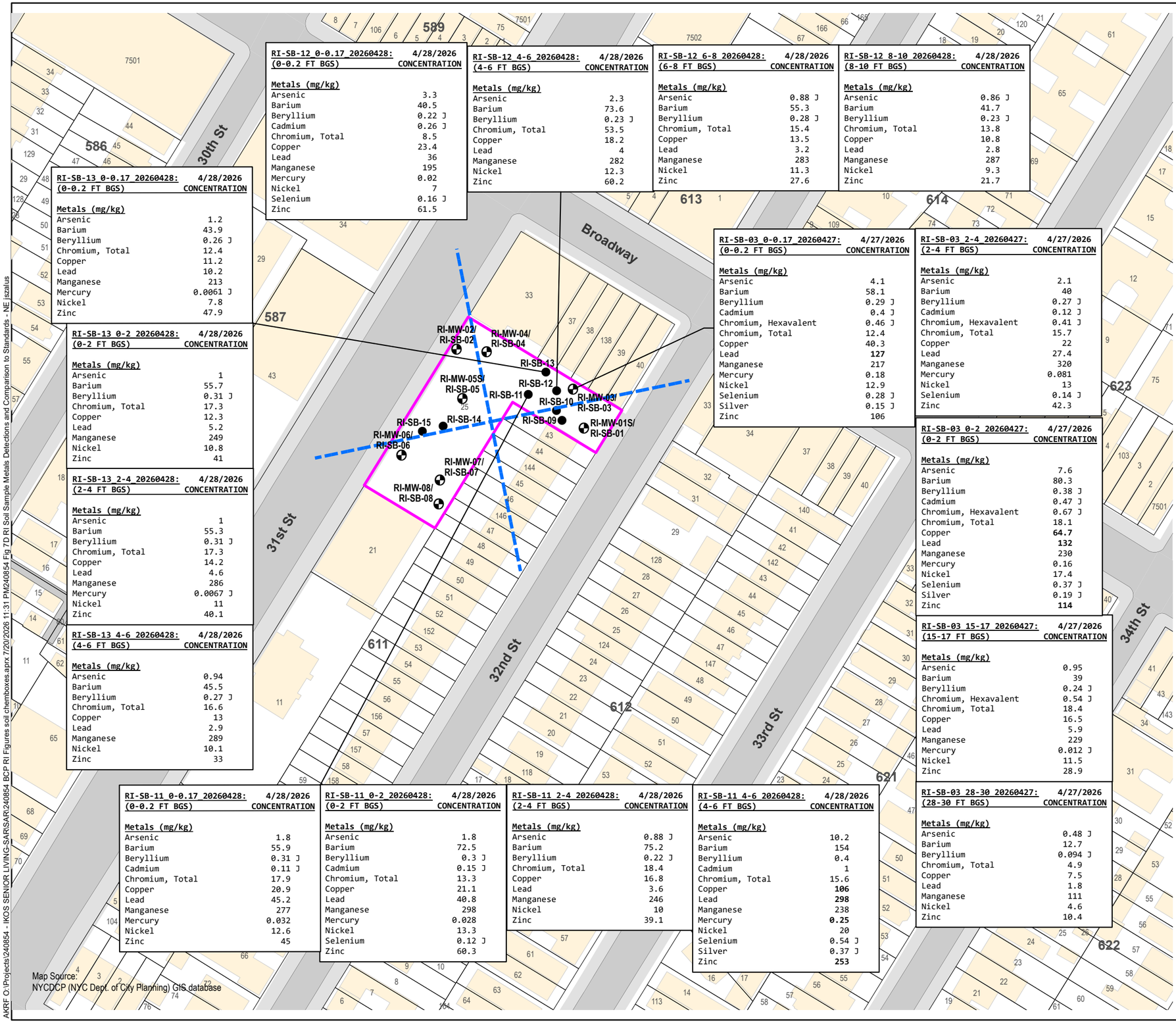
RI SOIL SAMPLE PCBS AND PESTICIDE DETECTIONS AND COMPARISON TO STANDARDS

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
7C

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:05 PM240854 Fig 7C RI Soil Sample PCBs and Pesticide Detections and Comparison to Standards jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12_0-2_20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION

Metals (mg/kg)
Lead **109**

Analyte/Compound — Concentration

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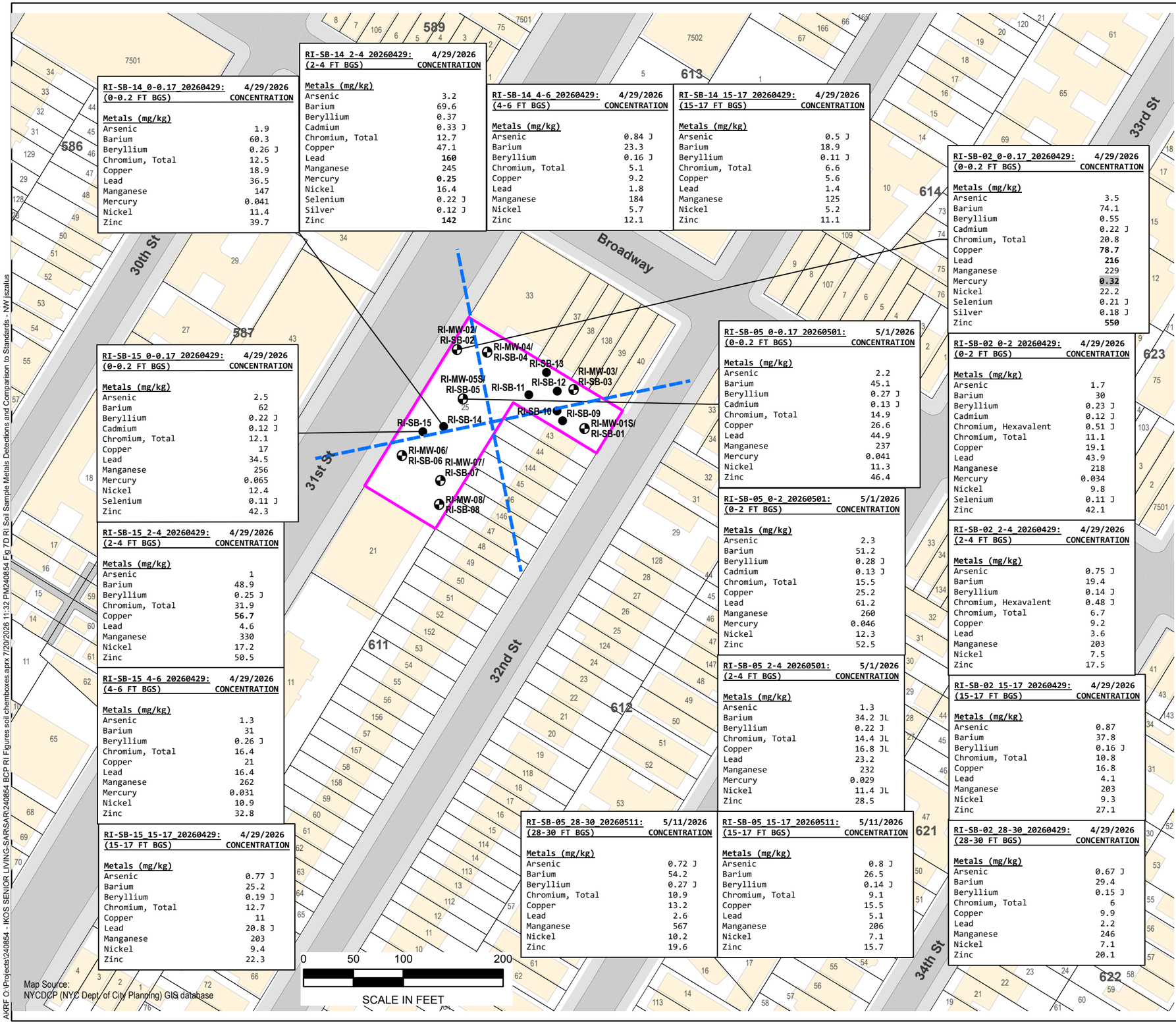
RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - NE

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
7D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:31 PM\240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - NE jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

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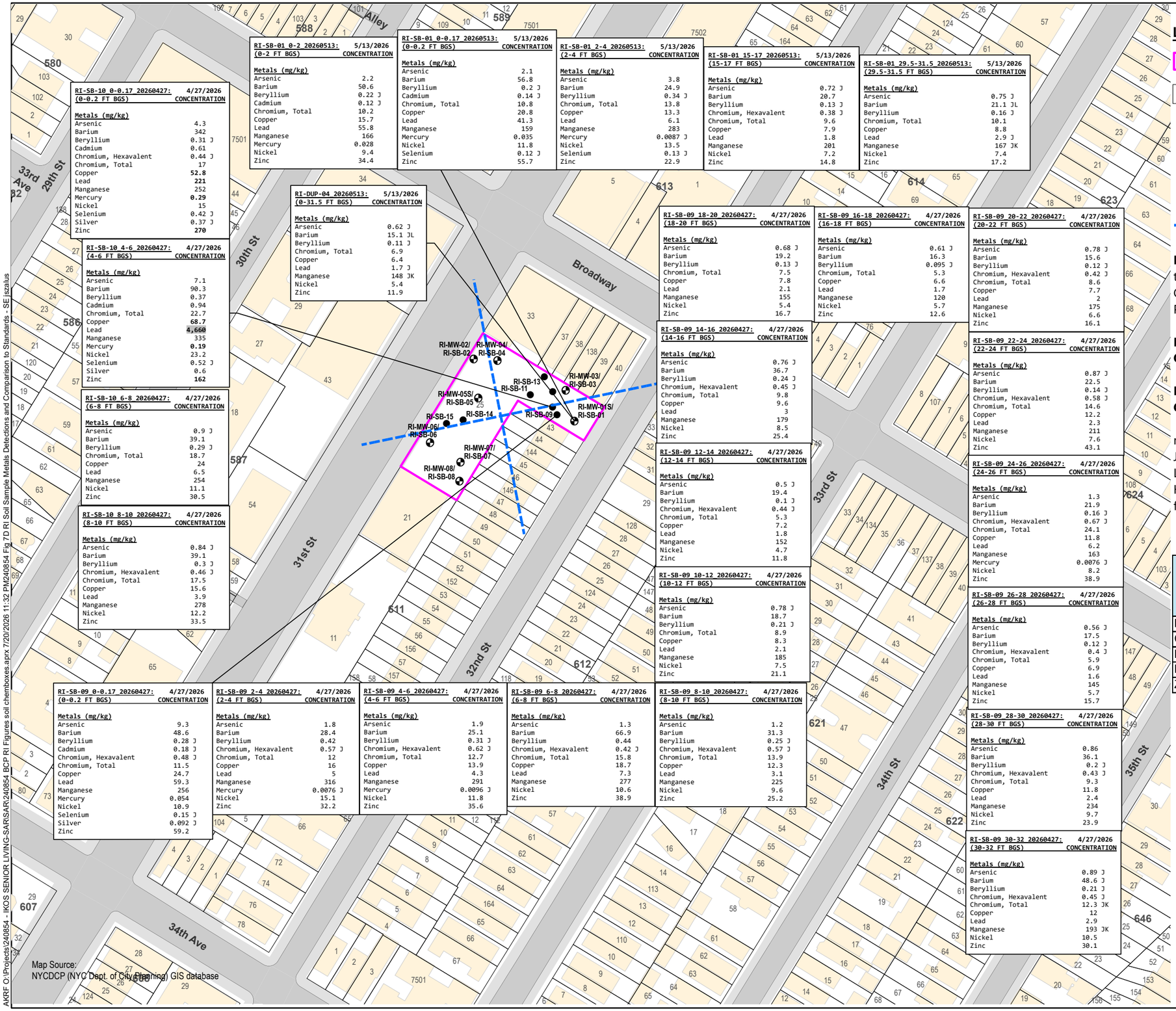
RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - NW

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
7D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:32 PM240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - NW jszalus



RI-SB-10 0-0.17 20260427: (0-0.2 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	4.3
Barium	342
Beryllium	0.31 J
Cadmium	0.61
Chromium, Hexavalent	0.44 J
Chromium, Total	17
Copper	**52.8**
Lead	**221**
Manganese	252
Mercury	**0.29**
Nickel	15
Selenium	0.42 J
Silver	0.37 J
Zinc	**270**

RI-SB-10 4-6 20260427: (4-6 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	7.1
Barium	90.3
Beryllium	0.37
Cadmium	0.94
Chromium, Total	22.7
Copper	**68.7**
Lead	**4,660**
Manganese	335
Mercury	**0.19**
Nickel	23.2
Selenium	0.52 J
Silver	0.6
Zinc	**162**

RI-SB-10 6-8 20260427: (6-8 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.9 J
Barium	39.1
Beryllium	0.29 J
Chromium, Total	18.7
Copper	24
Lead	6.5
Manganese	254
Nickel	11.1
Zinc	30.5

RI-SB-10 8-10 20260427: (8-10 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.84 J
Barium	39.1
Beryllium	0.3 J
Chromium, Hexavalent	0.46 J
Chromium, Total	17.5
Copper	15.6
Lead	3.9
Manganese	278
Nickel	12.2
Zinc	33.5

RI-SB-01 0-2 20260513: (0-2 FT BGS) 5/13/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	2.2
Barium	50.6
Beryllium	0.22 J
Cadmium	0.12 J
Chromium, Total	10.2
Copper	15.7
Lead	55.8
Manganese	166
Mercury	0.028
Nickel	9.4
Zinc	34.4

RI-SB-01 0-0.17 20260513: (0-0.2 FT BGS) 5/13/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	2.1
Barium	56.8
Beryllium	0.2 J
Cadmium	0.14 J
Chromium, Total	10.8
Copper	20.8
Lead	41.3
Manganese	159
Mercury	0.035
Nickel	11.8
Selenium	0.12 J
Zinc	55.7

RI-SB-01 2-4 20260513: (2-4 FT BGS) 5/13/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	3.8
Barium	24.9
Beryllium	0.34 J
Chromium, Total	13.8
Copper	13.3
Lead	6.1
Manganese	283
Mercury	0.0087 J
Nickel	13.5
Selenium	0.13 J
Zinc	22.9

RI-SB-01 15-17 20260513: (15-17 FT BGS) 5/13/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.72 J
Barium	20.7
Beryllium	0.13 J
Chromium, Hexavalent	0.38 J
Chromium, Total	9.6
Copper	7.9
Lead	1.8
Manganese	201
Nickel	7.2
Zinc	14.8

RI-SB-01 29.5-31.5 20260513: (29.5-31.5 FT BGS) 5/13/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.75 J
Barium	21.1 JL
Beryllium	0.16 J
Chromium, Total	10.1
Copper	8.8
Lead	2.9 J
Manganese	167 JK
Nickel	7.4
Zinc	17.2

RI-DUP-04 20260513: (0-31.5 FT BGS) 5/13/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.62 J
Barium	15.1 JL
Beryllium	0.11 J
Chromium, Total	6.9
Copper	6.4
Lead	1.7 J
Manganese	148 JK
Nickel	5.4
Zinc	11.9

RI-SB-09 18-20 20260427: (18-20 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.68 J
Barium	19.2
Beryllium	0.13 J
Chromium, Total	7.5
Copper	7.8
Lead	2.1
Manganese	155
Nickel	5.4
Zinc	16.7

RI-SB-09 16-18 20260427: (16-18 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.61 J
Barium	16.3
Beryllium	0.095 J
Chromium, Total	5.3
Copper	6.6
Lead	1.7
Manganese	120
Nickel	5.7
Zinc	12.6

RI-SB-09 20-22 20260427: (20-22 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.78 J
Barium	15.6
Beryllium	0.12 J
Chromium, Hexavalent	0.42 J
Chromium, Total	8.6
Copper	7.7
Lead	2
Manganese	175
Nickel	6.6
Zinc	16.1

RI-SB-09 14-16 20260427: (14-16 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.76 J
Barium	36.7
Beryllium	0.24 J
Chromium, Hexavalent	0.45 J
Chromium, Total	9.8
Copper	9.6
Lead	3
Manganese	179
Nickel	8.5
Zinc	25.4

RI-SB-09 22-24 20260427: (22-24 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.87 J
Barium	22.5
Beryllium	0.14 J
Chromium, Hexavalent	0.58 J
Chromium, Total	14.6
Copper	12.2
Lead	2.3
Manganese	211
Nickel	7.6
Zinc	43.1

RI-SB-09 12-14 20260427: (12-14 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.5 J
Barium	19.4
Beryllium	0.1 J
Chromium, Hexavalent	0.44 J
Chromium, Total	5.3
Copper	7.2
Lead	1.8
Manganese	152
Nickel	4.7
Zinc	11.8

RI-SB-09 24-26 20260427: (24-26 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.3
Barium	21.9
Beryllium	0.16 J
Chromium, Hexavalent	0.67 J
Chromium, Total	24.1
Copper	11.8
Lead	6.2
Manganese	163
Mercury	0.0076 J
Nickel	8.2
Zinc	38.9

RI-SB-09 10-12 20260427: (10-12 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.78 J
Barium	18.7
Beryllium	0.21 J
Chromium, Total	8.9
Copper	8.3
Lead	2.1
Manganese	185
Nickel	7.5
Zinc	21.1

RI-SB-09 26-28 20260427: (26-28 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.56 J
Barium	17.5
Beryllium	0.12 J
Chromium, Hexavalent	0.4 J
Chromium, Total	5.9
Copper	6.9
Lead	1.6
Manganese	145
Nickel	5.7
Zinc	15.7

RI-SB-09 28-30 20260427: (28-30 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.86
Barium	36.1
Beryllium	0.2 J
Chromium, Hexavalent	0.43 J
Chromium, Total	9.3
Copper	11.8
Lead	2.4
Manganese	234
Nickel	9.7
Zinc	23.9

RI-SB-09 30-32 20260427: (30-32 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	0.89 J
Barium	48.6 J
Beryllium	0.21 J
Chromium, Hexavalent	0.45 J
Chromium, Total	12.3 JK
Copper	12
Lead	2.9
Manganese	193 JK
Nickel	10.5
Zinc	30.1

RI-SB-09 0-0.17 20260427: (0-0.2 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	9.3
Barium	48.6
Beryllium	0.28 J
Cadmium	0.18 J
Chromium, Hexavalent	0.48 J
Chromium, Total	11.5
Copper	24.7
Lead	59.3
Manganese	256
Mercury	0.054
Nickel	10.9
Selenium	0.15 J
Silver	0.092 J
Zinc	59.2

RI-SB-09 2-4 20260427: (2-4 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.8
Barium	28.4
Beryllium	0.42
Chromium, Hexavalent	0.57 J
Chromium, Total	12
Copper	16
Lead	5
Manganese	316
Mercury	0.0076 J
Nickel	15.1
Zinc	32.2

RI-SB-09 4-6 20260427: (4-6 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.9
Barium	25.1
Beryllium	0.31 J
Chromium, Hexavalent	0.62 J
Chromium, Total	12.7
Copper	13.9
Lead	4.3
Manganese	291
Mercury	0.0096 J
Nickel	11.8
Zinc	35.6

RI-SB-09 6-8 20260427: (6-8 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.3
Barium	66.9
Beryllium	0.44
Chromium, Hexavalent	0.42 J
Chromium, Total	15.8
Copper	18.7
Lead	7.3
Manganese	277
Nickel	10.6
Zinc	38.9

RI-SB-09 8-10 20260427: (8-10 FT BGS) 4/27/2026 CONCENTRATION

Metals (mg/kg)	
Arsenic	1.2
Barium	31.3
Beryllium	0.25 J
Chromium, Hexavalent	0.57 J
Chromium, Total	13.9
Copper	12.3
Lead	3.1
Manganese	225
Nickel	9.6
Zinc	25.2

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
L: Sample result is estimated and biased low.
K: Reported concentration value is proportional to dilution factor and may be exaggerated.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 125 250
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION

Metals (mg/kg)	
Lead	**109**

Analyte/Compound — Concentration

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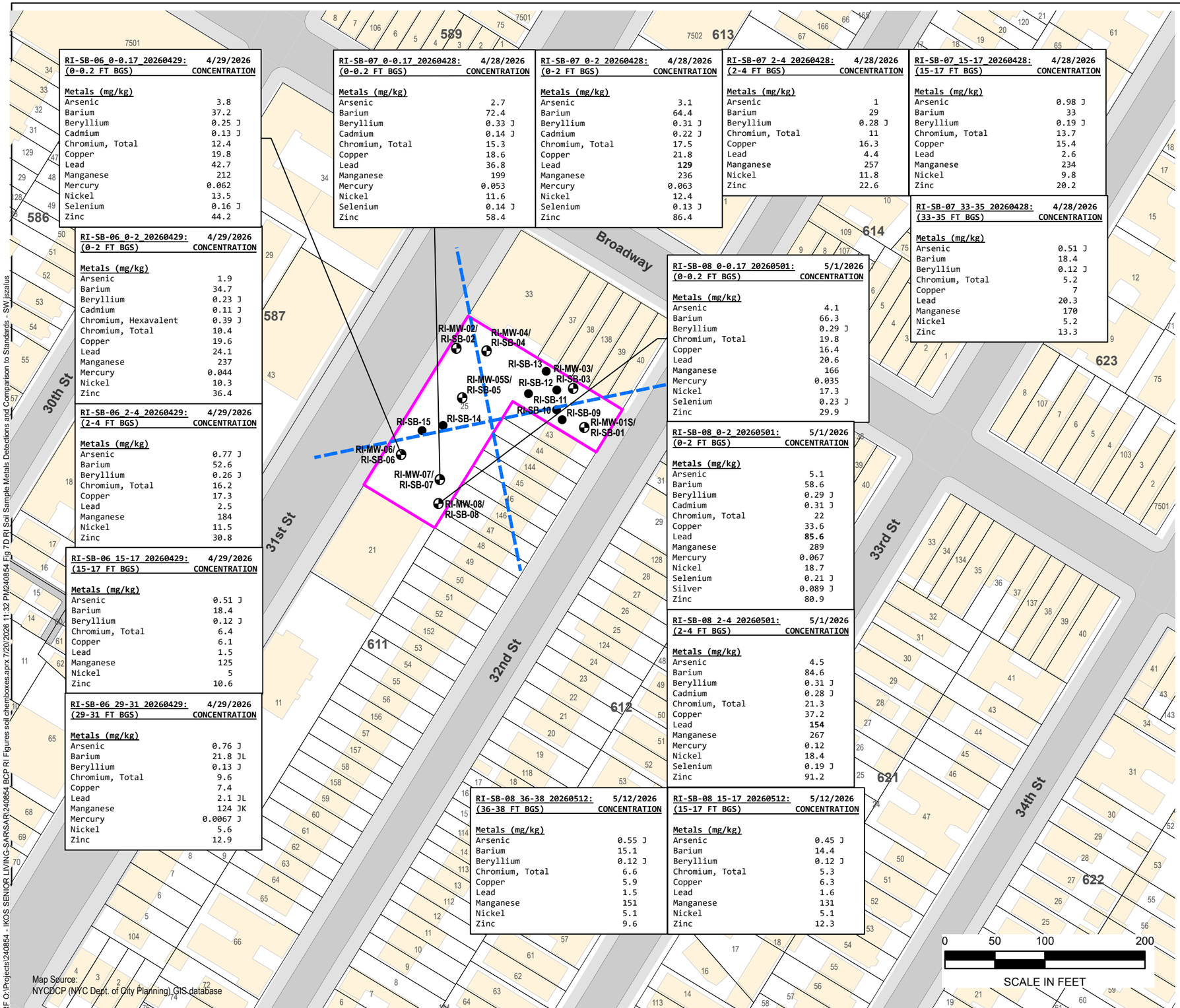
RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - SE

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
7D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/20/2026 11:32 PM240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - SE jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- SOIL BORING
- SOIL BORING/MONITORING WELL
- SITE QUADRANT

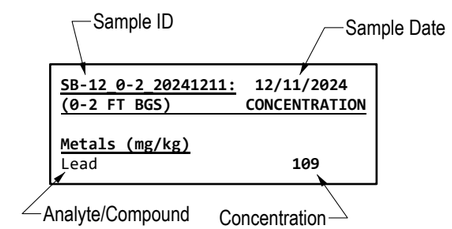
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	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109



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RI SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS - SW

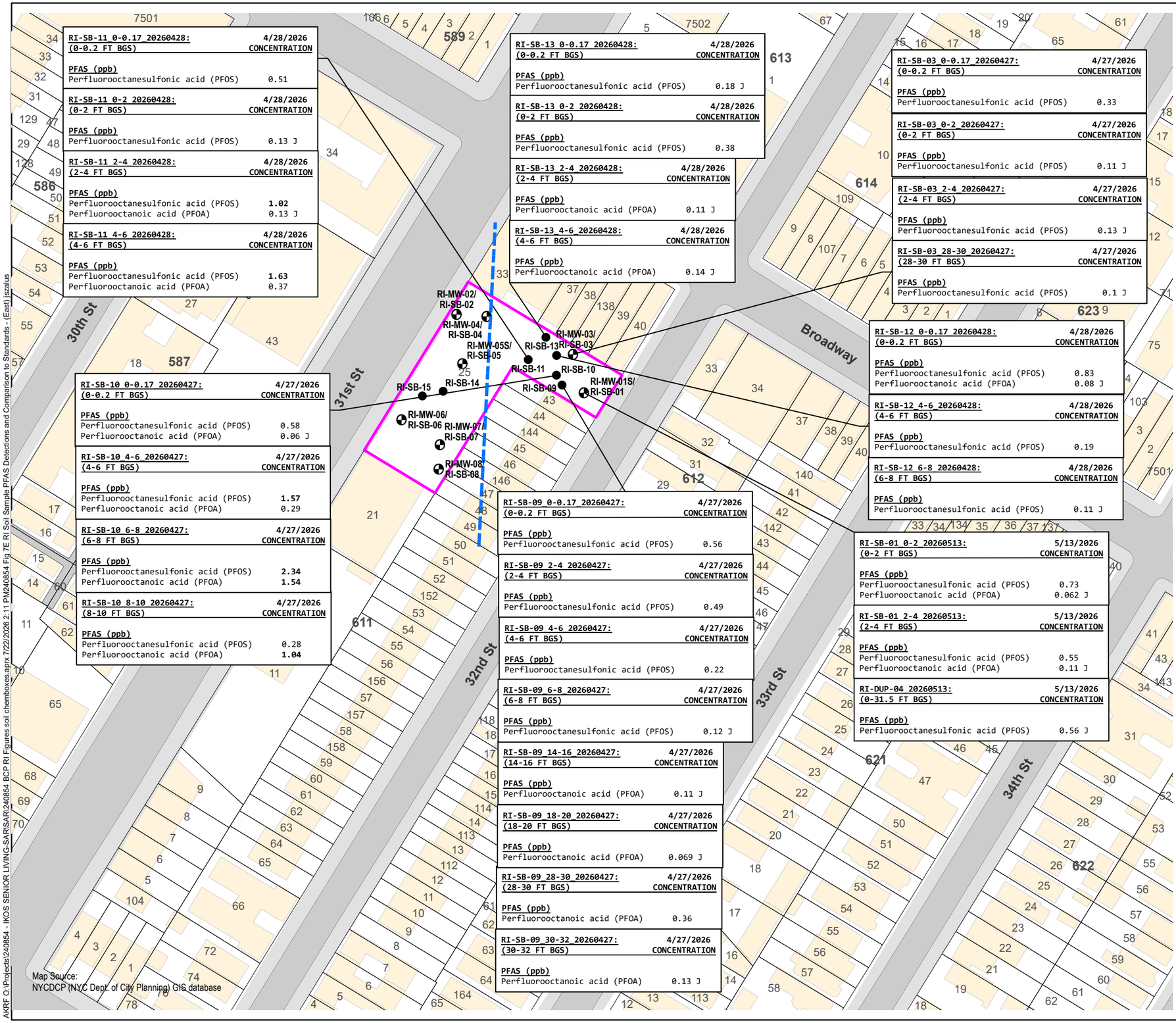
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Queens, New York

DATE
7/20/2026

PROJECT NO.
240854

FIGURE
7D

AKRF Q:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854_BCP RI Figures soil chemboxes.aprx 7/20/2026 11:32 PM240854 Fig 7D RI Soil Sample Metals Detections and Comparison to Standards - SW jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- 2389 BLOCK NUMBER
- EAST/WEST HALF OF SITE
- SOIL BORING
- SOIL BORING/MONITORING WELL

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PFAS GUIDANCE VALUES RRSCOs ppb	PFAS GUIDANCE VALUES UUSCOs ppb
PFAS		
Perfluorooctanesulfonic acid (PFOS)	44	0.88
Perfluorooctanoic acid (PFOA)	33	0.66

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

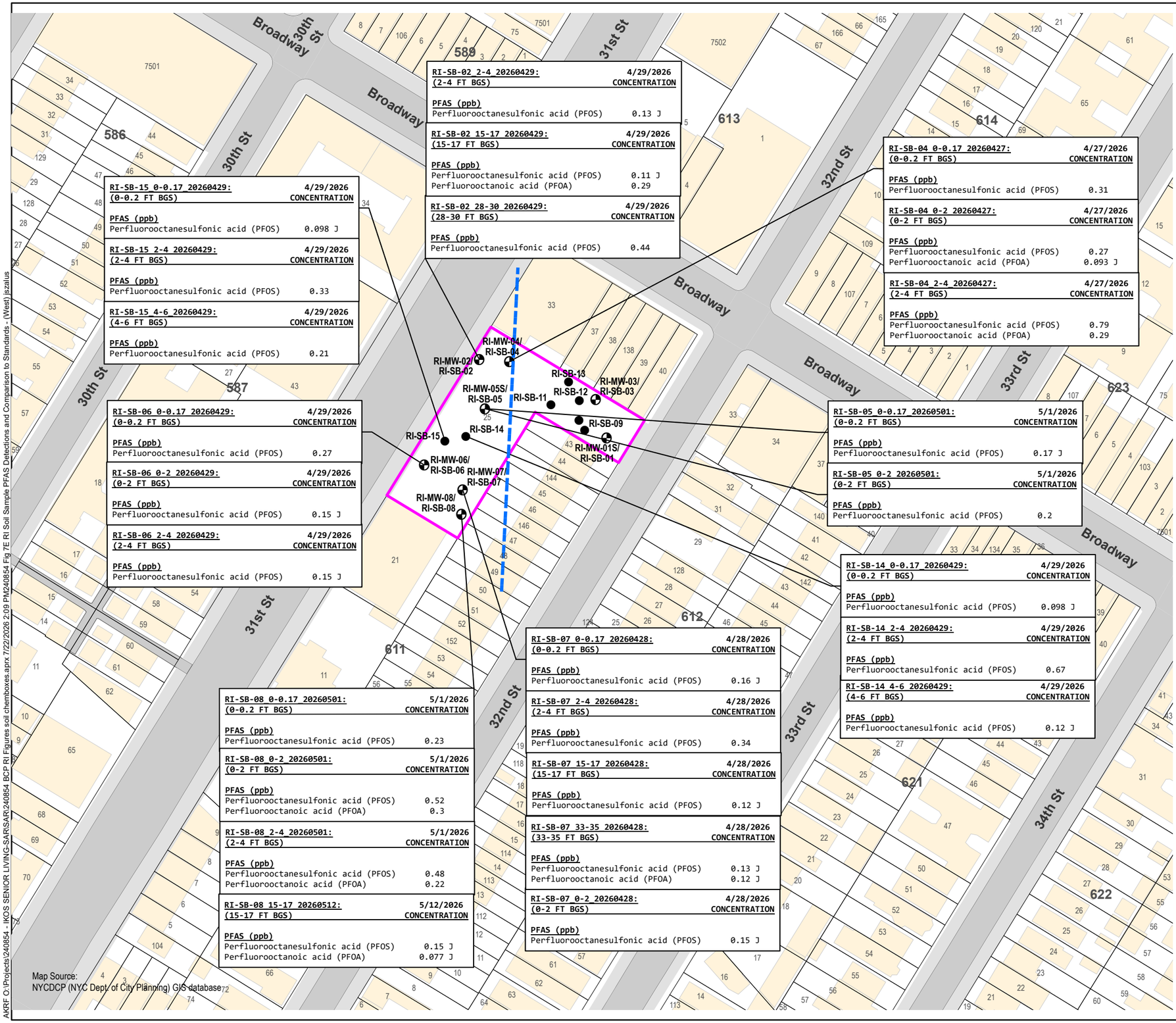
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RI SOIL SAMPLE PFAS DETECTIONS AND COMPARISON TO STANDARDS - (EAST)

DATE 7/22/2026
PROJECT NO. 240854
FIGURE 7E

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes aprx 7/22/2026 2:11 PM240854 Fig 7E RI Soil Sample PFAS Detections and Comparison to Standards - (East) jazalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- EAST/WEST HALF OF SITE
- SOIL BORING
- SOIL BORING/MONITORING WELL

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PFAS GUIDANCE VALUES RRSCOs ppb	PFAS GUIDANCE VALUES UUSCOs ppb
PFAS		
Perfluorooctanesulfonic acid (PFOS)	44	0.88
Perfluorooctanoic acid (PFOA)	33	0.66

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

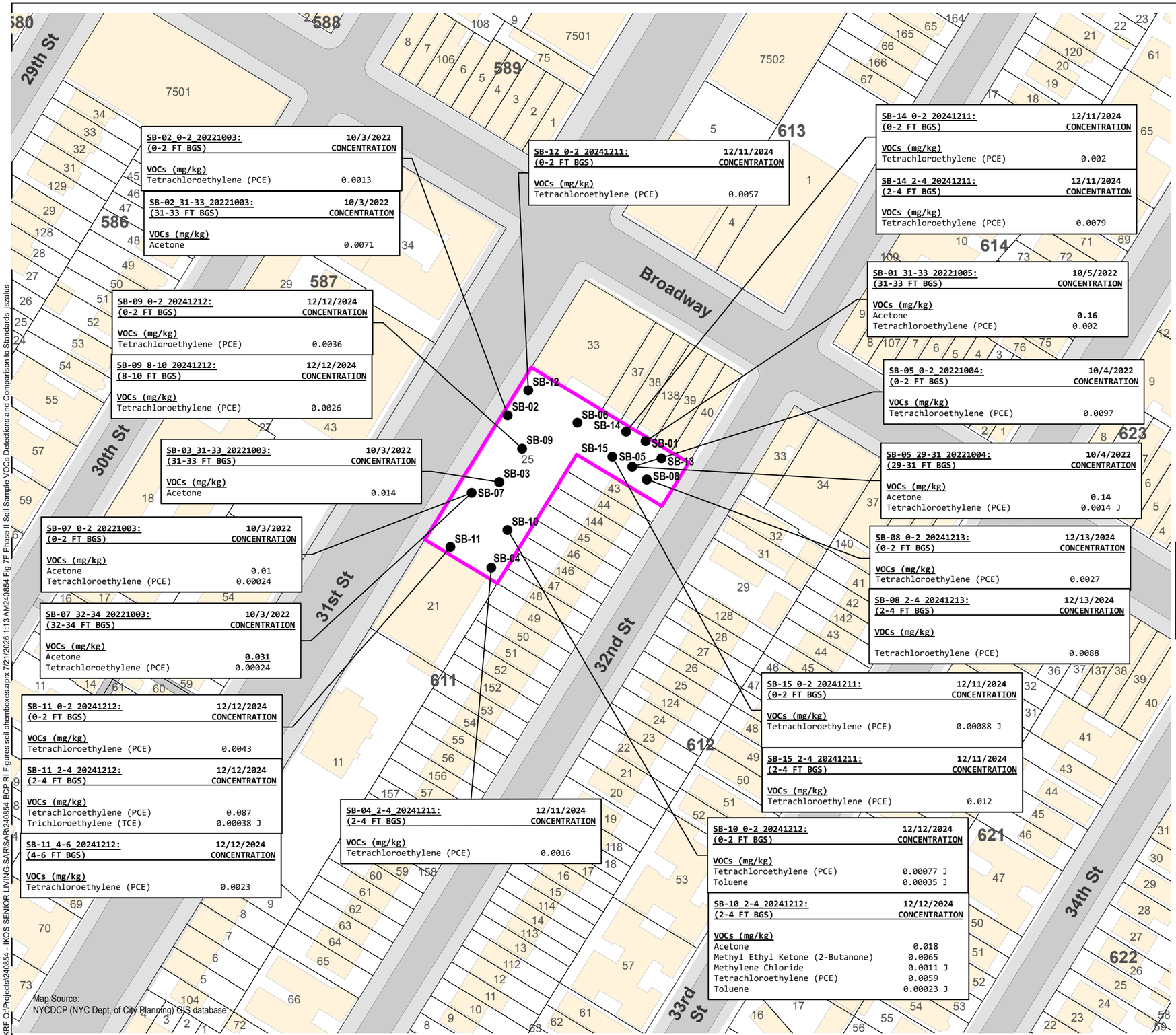
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Queens, New York

RI SOIL SAMPLE PFAS DETECTIONS AND COMPARISON TO STANDARDS - (WEST)

DATE 7/22/2026
PROJECT NO. 240854
FIGURE 7E

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/22/2026 2:09 PM 240854 Fig 7E RI Soil Sample PFAS Detections and Comparison to Standards - (West) jszalus



SB-02 0-2 20221003: (0-2 FT BGS) — 10/3/2022 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0013

SB-02 31-33 20221003: (31-33 FT BGS) — 10/3/2022 CONCENTRATION

VOCs (mg/kg)

Acetone	0.0071

SB-09 0-2 20241212: (0-2 FT BGS) — 12/12/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0036

SB-09 8-10 20241212: (8-10 FT BGS) — 12/12/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0026

SB-03 31-33 20221003: (31-33 FT BGS) — 10/3/2022 CONCENTRATION

VOCs (mg/kg)

Acetone	0.014

SB-07 0-2 20221003: (0-2 FT BGS) — 10/3/2022 CONCENTRATION

VOCs (mg/kg)

Acetone	0.01
Tetrachloroethylene (PCE)	0.00024

SB-07 32-34 20221003: (32-34 FT BGS) — 10/3/2022 CONCENTRATION

VOCs (mg/kg)

Acetone	**0.031**
Tetrachloroethylene (PCE)	0.00024

SB-11 0-2 20241212: (0-2 FT BGS) — 12/12/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0043

SB-11 2-4 20241212: (2-4 FT BGS) — 12/12/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.087
Trichloroethylene (TCE)	0.00038 J

SB-11 4-6 20241212: (4-6 FT BGS) — 12/12/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0023

SB-12 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0057

SB-04 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0016

SB-14 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.002

SB-14 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0079

SB-01 31-33 20221005: (31-33 FT BGS) — 10/5/2022 CONCENTRATION

VOCs (mg/kg)

Acetone	**0.16**
Tetrachloroethylene (PCE)	0.002

SB-05 0-2 20221004: (0-2 FT BGS) — 10/4/2022 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0097

SB-05 29-31 20221004: (29-31 FT BGS) — 10/4/2022 CONCENTRATION

VOCs (mg/kg)

Acetone	**0.14**
Tetrachloroethylene (PCE)	0.0014 J

SB-08 0-2 20241213: (0-2 FT BGS) — 12/13/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0027

SB-08 2-4 20241213: (2-4 FT BGS) — 12/13/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0088

SB-15 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.00088 J

SB-15 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.012

SB-10 0-2 20241212: (0-2 FT BGS) — 12/12/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.00077 J
Toluene	0.00035 J

SB-10 2-4 20241212: (2-4 FT BGS) — 12/12/2024 CONCENTRATION

VOCs (mg/kg)

Acetone	0.018
Methyl Ethyl Ketone (2-Butanone)	0.0065
Methylene Chloride	0.0011 J
Tetrachloroethylene (PCE)	0.0059
Toluene	0.00023 J

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION

N

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

Exceedances of NYSDEC Protected Groundwater Soil Cleanup Objectives (PGWSCOs) are presented in underlined font.

	PART 375 PROTECTION OF GROUNDWATER (mg/kg)	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
VOCs			
Acetone	0.03	100	0.03

0 50 100 200

SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

VOCs (mg/kg)

Tetrachloroethylene (PCE)	0.0057

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS

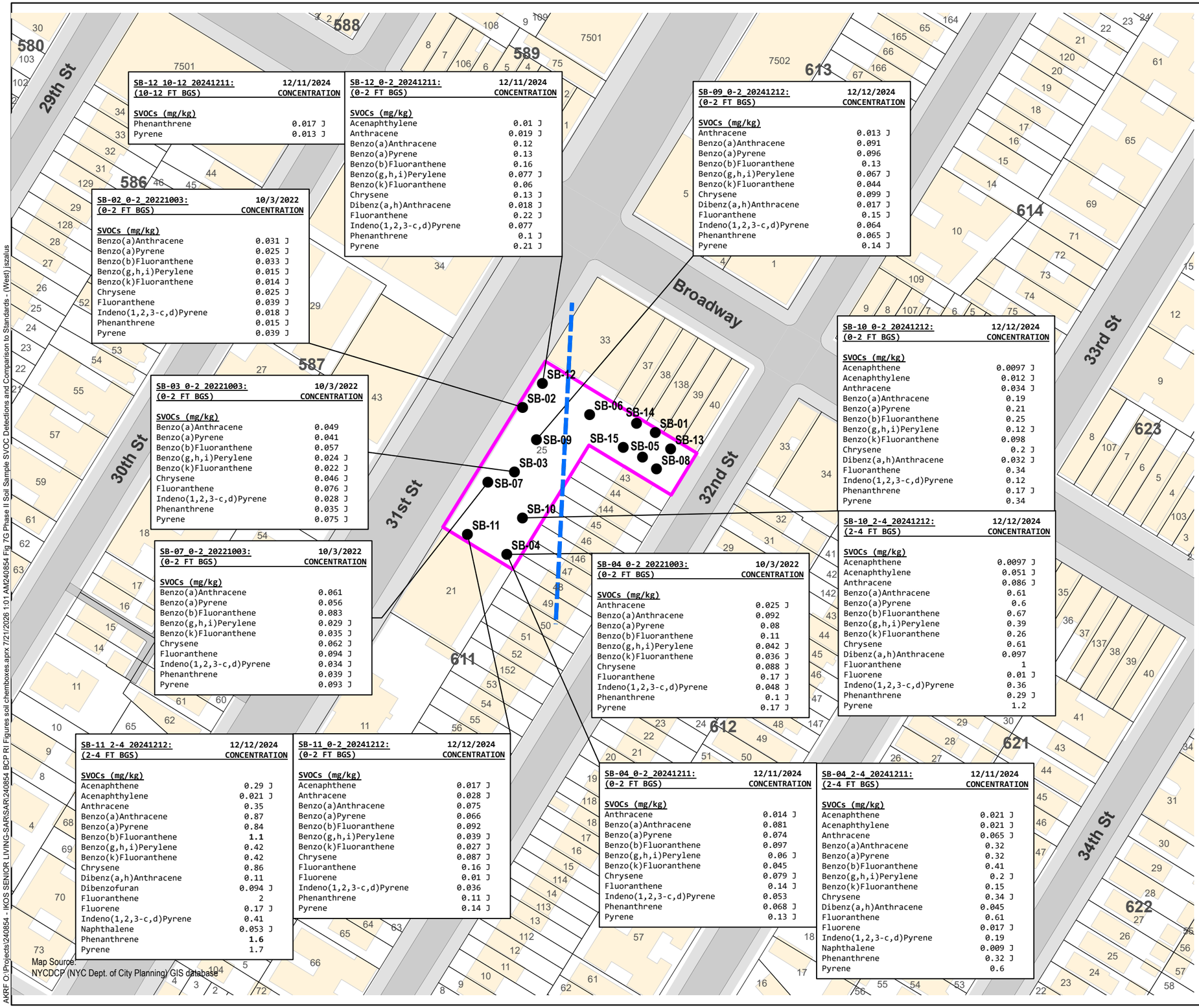
32-11 31st Street
Queens, New York

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
7F

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 1:13 AM jszalus
Figure II Soil Sample VOCs Detections and Comparison to Standards



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- EAST/WEST HALF OF SITE
- SOIL SAMPLE LOCATION

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

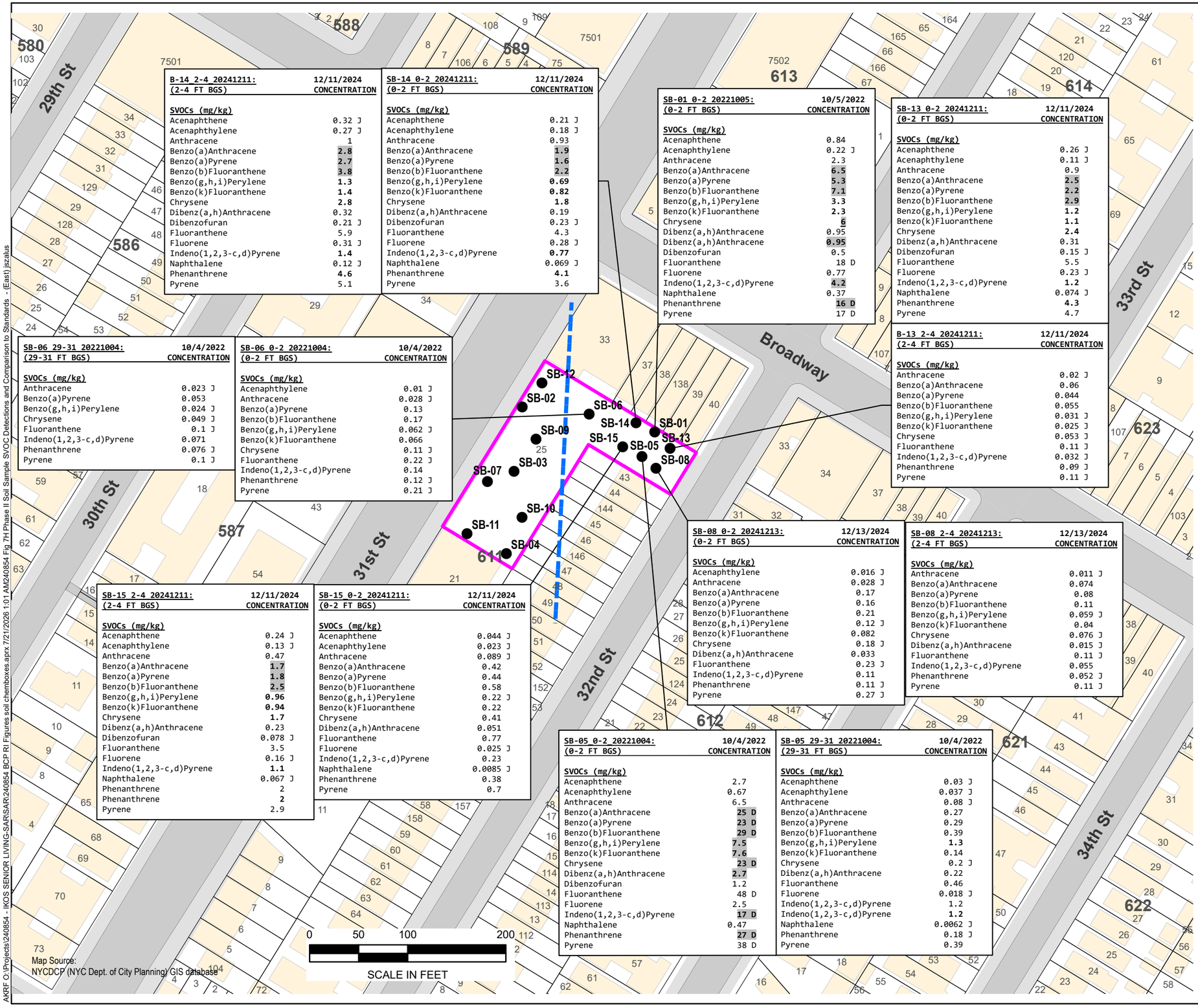
akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS (WEST)

32-11 31st Street
Queens, New York

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 7G

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 1:01 AM240854 Fig 7G Phase II Soil Sample SVOC Detections and Comparison to Standards - (West) jszalus



B-14 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.32 J
Acenaphthylene	0.27 J
Anthracene	1
Benzo(a)Anthracene	**2.8**
Benzo(a)Pyrene	**2.7**
Benzo(b)Fluoranthene	**3.8**
Benzo(g,h,i)Perylene	**1.3**
Benzo(k)Fluoranthene	**1.4**
Chrysene	**2.8**
Dibenz(a,h)Anthracene	0.32
Dibenzofuran	0.21 J
Fluoranthene	5.9
Fluorene	0.31 J
Indeno(1,2,3-c,d)Pyrene	**1.4**
Naphthalene	0.12 J
Phenanthrene	**4.6**
Pyrene	5.1

SB-14 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.21 J
Acenaphthylene	0.18 J
Anthracene	0.93
Benzo(a)Anthracene	**1.9**
Benzo(a)Pyrene	**1.6**
Benzo(b)Fluoranthene	**2.2**
Benzo(g,h,i)Perylene	**0.69**
Benzo(k)Fluoranthene	**0.82**
Chrysene	**1.8**
Dibenz(a,h)Anthracene	0.19
Dibenzofuran	0.23 J
Fluoranthene	4.3
Fluorene	0.28 J
Indeno(1,2,3-c,d)Pyrene	**0.77**
Naphthalene	0.069 J
Phenanthrene	**4.1**
Pyrene	3.6

SB-01 0-2 20221005: (0-2 FT BGS) — 10/5/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.84
Acenaphthylene	0.22 J
Anthracene	2.3
Benzo(a)Anthracene	**6.5**
Benzo(a)Pyrene	**5.3**
Benzo(b)Fluoranthene	**7.1**
Benzo(g,h,i)Perylene	**3.3**
Benzo(k)Fluoranthene	**2.3**
Chrysene	**6**
Dibenz(a,h)Anthracene	0.95
Dibenz(a,h)Anthracene	**0.95**
Dibenzofuran	0.5
Fluoranthene	18 D
Fluorene	0.77
Indeno(1,2,3-c,d)Pyrene	**4.2**
Naphthalene	0.37
Phenanthrene	**16 D**
Pyrene	17 D

SB-13 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.26 J
Acenaphthylene	0.11 J
Anthracene	0.9
Benzo(a)Anthracene	**2.5**
Benzo(a)Pyrene	**2.2**
Benzo(b)Fluoranthene	**2.9**
Benzo(g,h,i)Perylene	**1.2**
Benzo(k)Fluoranthene	**1.1**
Chrysene	**2.4**
Dibenz(a,h)Anthracene	0.31
Dibenzofuran	0.15 J
Fluoranthene	5.5
Fluorene	0.23 J
Indeno(1,2,3-c,d)Pyrene	**1.2**
Naphthalene	0.074 J
Phenanthrene	**4.3**
Pyrene	4.7

B-13 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Anthracene	0.02 J
Benzo(a)Anthracene	0.06
Benzo(a)Pyrene	0.044
Benzo(b)Fluoranthene	0.055
Benzo(g,h,i)Perylene	0.031 J
Benzo(k)Fluoranthene	0.025 J
Chrysene	0.053 J
Fluoranthene	0.11 J
Indeno(1,2,3-c,d)Pyrene	0.032 J
Phenanthrene	0.09 J
Pyrene	0.11 J

SB-06 29-31 20221004: (29-31 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Anthracene	0.023 J
Benzo(a)Pyrene	0.053
Benzo(g,h,i)Perylene	0.024 J
Chrysene	0.049 J
Fluoranthene	0.1 J
Indeno(1,2,3-c,d)Pyrene	0.071
Phenanthrene	0.076 J
Pyrene	0.1 J

SB-06 0-2 20221004: (0-2 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthylene	0.01 J
Anthracene	0.028 J
Benzo(a)Pyrene	0.13
Benzo(b)Fluoranthene	0.17
Benzo(g,h,i)Perylene	0.062 J
Benzo(k)Fluoranthene	0.066
Chrysene	0.11 J
Fluoranthene	0.22 J
Indeno(1,2,3-c,d)Pyrene	0.14
Phenanthrene	0.12 J
Pyrene	0.21 J

SB-08 0-2 20241213: (0-2 FT BGS) — 12/13/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthylene	0.016 J
Anthracene	0.028 J
Benzo(a)Anthracene	0.17
Benzo(a)Pyrene	0.16
Benzo(b)Fluoranthene	0.21
Benzo(g,h,i)Perylene	0.12 J
Benzo(k)Fluoranthene	0.082
Chrysene	0.18 J
Dibenz(a,h)Anthracene	0.033
Fluoranthene	0.23 J
Indeno(1,2,3-c,d)Pyrene	0.11
Phenanthrene	0.11 J
Pyrene	0.27 J

SB-08 2-4 20241213: (2-4 FT BGS) — 12/13/2024 CONCENTRATION

SVOCs (mg/kg)	
Anthracene	0.011 J
Benzo(a)Anthracene	0.074
Benzo(a)Pyrene	0.08
Benzo(b)Fluoranthene	0.11
Benzo(g,h,i)Perylene	0.059 J
Benzo(k)Fluoranthene	0.04
Chrysene	0.076 J
Dibenz(a,h)Anthracene	0.015 J
Fluoranthene	0.11 J
Indeno(1,2,3-c,d)Pyrene	0.055
Phenanthrene	0.052 J
Pyrene	0.11 J

SB-15 2-4 20241211: (2-4 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.24 J
Acenaphthylene	0.13 J
Anthracene	0.47
Benzo(a)Anthracene	**1.7**
Benzo(a)Pyrene	**1.8**
Benzo(b)Fluoranthene	**2.5**
Benzo(g,h,i)Perylene	**0.96**
Benzo(k)Fluoranthene	**0.94**
Chrysene	**1.7**
Dibenz(a,h)Anthracene	0.23
Dibenzofuran	0.078 J
Fluoranthene	3.5
Fluorene	0.16 J
Indeno(1,2,3-c,d)Pyrene	**1.1**
Naphthalene	0.067 J
Phenanthrene	2
Phenanthrene	**2**
Pyrene	2.9

SB-15 0-2 20241211: (0-2 FT BGS) — 12/11/2024 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.044 J
Acenaphthylene	0.023 J
Anthracene	0.089 J
Benzo(a)Anthracene	0.42
Benzo(a)Pyrene	0.44
Benzo(b)Fluoranthene	0.58
Benzo(g,h,i)Perylene	0.22 J
Benzo(k)Fluoranthene	0.22
Chrysene	0.41
Dibenz(a,h)Anthracene	0.051
Fluoranthene	0.77
Fluorene	0.025 J
Indeno(1,2,3-c,d)Pyrene	0.23
Naphthalene	0.0085 J
Phenanthrene	0.38
Pyrene	0.7

SB-05 0-2 20221004: (0-2 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	2.7
Acenaphthylene	0.67
Anthracene	6.5
Benzo(a)Anthracene	**25 D**
Benzo(a)Pyrene	**23 D**
Benzo(b)Fluoranthene	**29 D**
Benzo(g,h,i)Perylene	**7.5**
Benzo(k)Fluoranthene	**7.6**
Chrysene	**23 D**
Dibenz(a,h)Anthracene	**2.7**
Dibenzofuran	1.2
Fluoranthene	48 D
Fluorene	2.5
Indeno(1,2,3-c,d)Pyrene	**17 D**
Naphthalene	0.47
Phenanthrene	**27 D**
Pyrene	38 D

SB-05 29-31 20221004: (29-31 FT BGS) — 10/4/2022 CONCENTRATION

SVOCs (mg/kg)	
Acenaphthene	0.03 J
Acenaphthylene	0.037 J
Anthracene	0.08 J
Benzo(a)Anthracene	0.27
Benzo(a)Pyrene	0.29
Benzo(b)Fluoranthene	0.39
Benzo(g,h,i)Perylene	**1.3**
Benzo(k)Fluoranthene	0.14
Chrysene	0.2 J
Dibenz(a,h)Anthracene	0.22
Fluoranthene	0.46
Fluorene	0.018 J
Indeno(1,2,3-c,d)Pyrene	1.2
Indeno(1,2,3-c,d)Pyrene	**1.2**
Naphthalene	0.0062 J
Phenanthrene	0.18 J
Pyrene	0.39

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION
- EAST/WEST HALF OF SITE

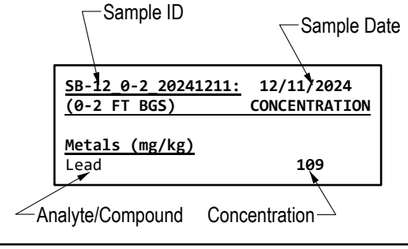
Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits
D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
SVOCs		
Benzo(a)Anthracene	1.4	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1.4	1
Benzo(g,h,i)Perylene	4.9	0.64
Benzo(k)Fluoranthene	4.9	0.8
Chrysene	4.9	1
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	1.4	0.5
Phenanthrene	4.9	1.1



akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS (EAST)

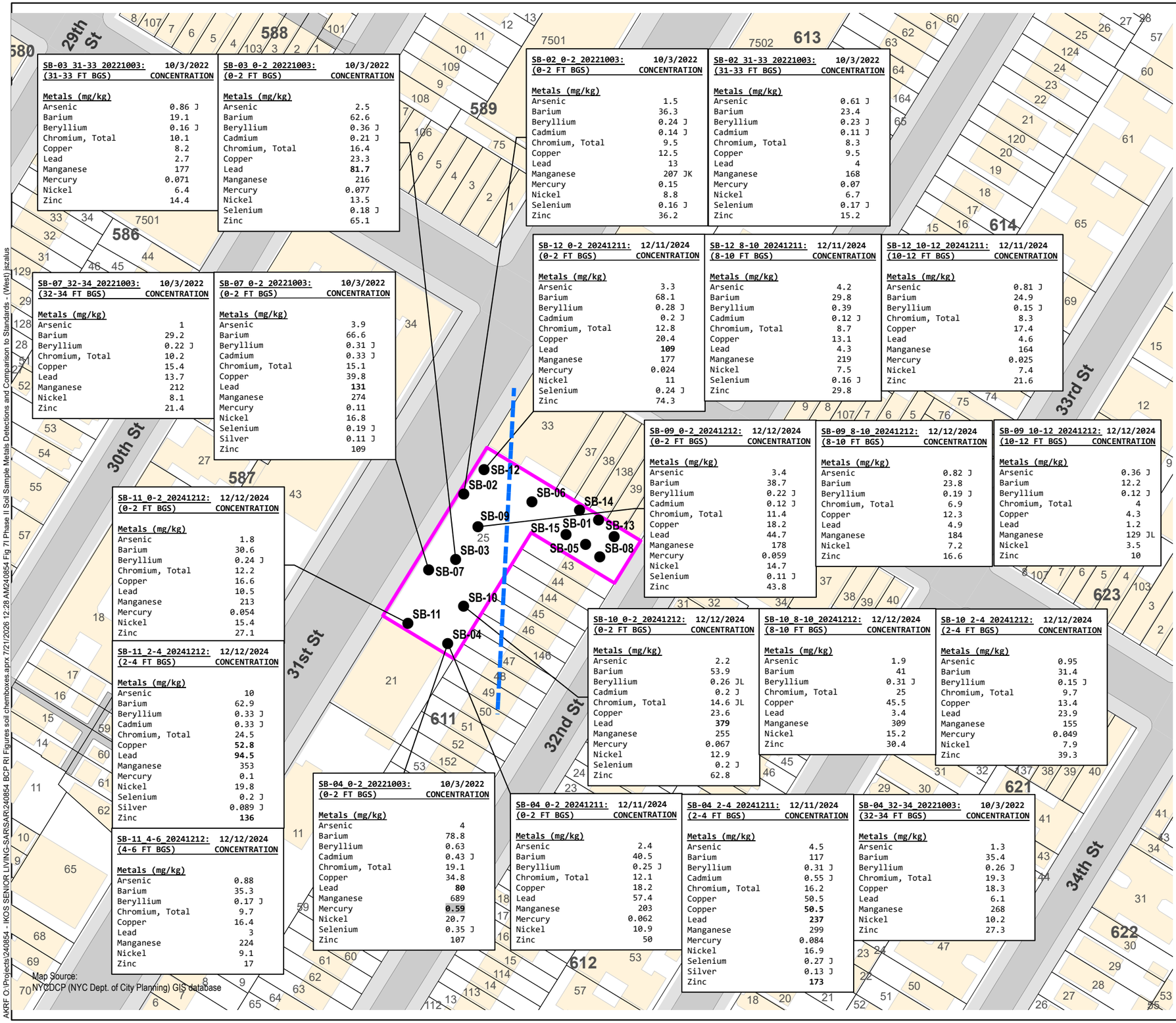
32-11 31st Street
Queens, New York

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
7H

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures.soil chemboxes.aprx 7/21/2026 1:01 AM240854 Fig 7H Phase II Soil Sample SVOC Detections and Comparison to Standards - (East) jszalus



SB-03 31-33 20221003: 10/3/2022
(31-33 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.86 J
Barium	19.1
Beryllium	0.16 J
Chromium, Total	10.1
Copper	8.2
Lead	2.7
Manganese	177
Mercury	0.071
Nickel	6.4
Zinc	14.4

SB-03 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.5
Barium	62.6
Beryllium	0.36 J
Cadmium	0.21 J
Chromium, Total	16.4
Copper	23.3
Lead	**81.7**
Manganese	216
Mercury	0.077
Nickel	13.5
Selenium	0.18 J
Zinc	65.1

SB-07 32-34 20221003: 10/3/2022
(32-34 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1
Barium	29.2
Beryllium	0.22 J
Chromium, Total	10.2
Copper	15.4
Lead	13.7
Manganese	212
Nickel	8.1
Zinc	21.4

SB-07 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.9
Barium	66.6
Beryllium	0.31 J
Cadmium	0.33 J
Chromium, Total	15.1
Copper	39.8
Lead	**131**
Manganese	274
Mercury	0.11
Nickel	16.8
Selenium	0.19 J
Silver	0.11 J
Zinc	109

SB-11 0-2 20241212: 12/12/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.8
Barium	30.6
Beryllium	0.24 J
Chromium, Total	12.2
Copper	16.6
Lead	10.5
Manganese	213
Mercury	0.054
Nickel	15.4
Zinc	27.1

SB-11 2-4 20241212: 12/12/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	10
Barium	62.9
Beryllium	0.33 J
Cadmium	0.33 J
Chromium, Total	24.5
Copper	**52.8**
Lead	**94.5**
Manganese	353
Mercury	0.1
Nickel	19.8
Selenium	0.2 J
Silver	0.089 J
Zinc	**136**

SB-11 4-6 20241212: 12/12/2024
(4-6 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.88
Barium	35.3
Beryllium	0.17 J
Chromium, Total	9.7
Copper	16.4
Lead	3
Manganese	224
Nickel	9.1
Zinc	17

SB-02 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.5
Barium	36.3
Beryllium	0.24 J
Cadmium	0.14 J
Chromium, Total	9.5
Copper	12.5
Lead	13
Manganese	207 JK
Mercury	0.15
Nickel	8.8
Selenium	0.16 J
Zinc	36.2

SB-02 31-33 20221003: 10/3/2022
(31-33 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.61 J
Barium	23.4
Beryllium	0.23 J
Cadmium	0.11 J
Chromium, Total	8.3
Copper	9.5
Lead	4
Manganese	168
Mercury	0.07
Nickel	6.7
Selenium	0.17 J
Zinc	15.2

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.3
Barium	68.1
Beryllium	0.28 J
Cadmium	0.2 J
Chromium, Total	12.8
Copper	20.4
Lead	**109**
Manganese	177
Mercury	0.024
Nickel	11
Selenium	0.24 J
Zinc	74.3

SB-12 8-10 20241211: 12/11/2024
(8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	4.2
Barium	29.8
Beryllium	0.39
Cadmium	0.12 J
Chromium, Total	8.7
Copper	13.1
Lead	4.3
Manganese	219
Nickel	7.5
Selenium	0.16 J
Zinc	29.8

SB-12 10-12 20241211: 12/11/2024
(10-12 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.81 J
Barium	24.9
Beryllium	0.15 J
Chromium, Total	8.3
Copper	17.4
Lead	4.6
Manganese	164
Mercury	0.025
Nickel	7.4
Zinc	21.6

SB-09 0-2 20241212: 12/12/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.4
Barium	38.7
Beryllium	0.22 J
Cadmium	0.12 J
Chromium, Total	11.4
Copper	18.2
Lead	44.7
Manganese	178
Mercury	0.059
Nickel	14.7
Selenium	0.11 J
Zinc	43.8

SB-09 8-10 20241212: 12/12/2024
(8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.82 J
Barium	23.8
Beryllium	0.19 J
Chromium, Total	6.9
Copper	12.3
Lead	4.9
Manganese	184
Nickel	7.2
Zinc	16.6

SB-09 10-12 20241212: 12/12/2024
(10-12 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.36 J
Barium	12.2
Beryllium	0.12 J
Chromium, Total	4
Copper	4.3
Lead	1.2
Manganese	129 JL
Nickel	3.5
Zinc	10

SB-10 0-2 20241212: 12/12/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.2
Barium	53.9
Beryllium	0.26 JL
Cadmium	0.2 J
Chromium, Total	14.6 JL
Copper	23.6
Lead	**379**
Manganese	255
Mercury	0.067
Nickel	12.9
Selenium	0.2 J
Zinc	62.8

SB-10 8-10 20241212: 12/12/2024
(8-10 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.9
Barium	41
Beryllium	0.31 J
Chromium, Total	25
Copper	45.5
Lead	3.4
Manganese	309
Nickel	15.2
Zinc	30.4

SB-10 2-4 20241212: 12/12/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.95
Barium	31.4
Beryllium	0.15 J
Chromium, Total	9.7
Copper	13.4
Lead	23.9
Manganese	155
Mercury	0.049
Nickel	7.9
Zinc	39.3

SB-04 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	4
Barium	78.8
Beryllium	0.63
Cadmium	0.43 J
Chromium, Total	19.1
Copper	34.8
Lead	**80**
Manganese	689
Mercury	**0.59**
Nickel	20.7
Selenium	0.35 J
Zinc	107

SB-04 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.4
Barium	40.5
Beryllium	0.25 J
Chromium, Total	12.1
Copper	18.2
Lead	57.4
Manganese	203
Mercury	0.062
Nickel	10.9
Zinc	50

SB-04 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	4.5
Barium	117
Beryllium	0.31 J
Cadmium	0.55 J
Chromium, Total	16.2
Copper	50.5
Copper	**50.5**
Lead	**237**
Manganese	299
Mercury	0.084
Nickel	16.9
Selenium	0.27 J
Silver	0.13 J
Zinc	**173**

SB-04 32-34 20221003: 10/3/2022
(32-34 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	1.3
Barium	35.4
Beryllium	0.26 J
Chromium, Total	19.3
Copper	18.3
Lead	6.1
Manganese	268
Nickel	10.2
Zinc	27.3

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits.
L: Sample result is estimated and biased low.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

VOCs (mg/kg)
Tetrachloroethylene (PCE) 0.0057

Analyte/Compound — Concentration

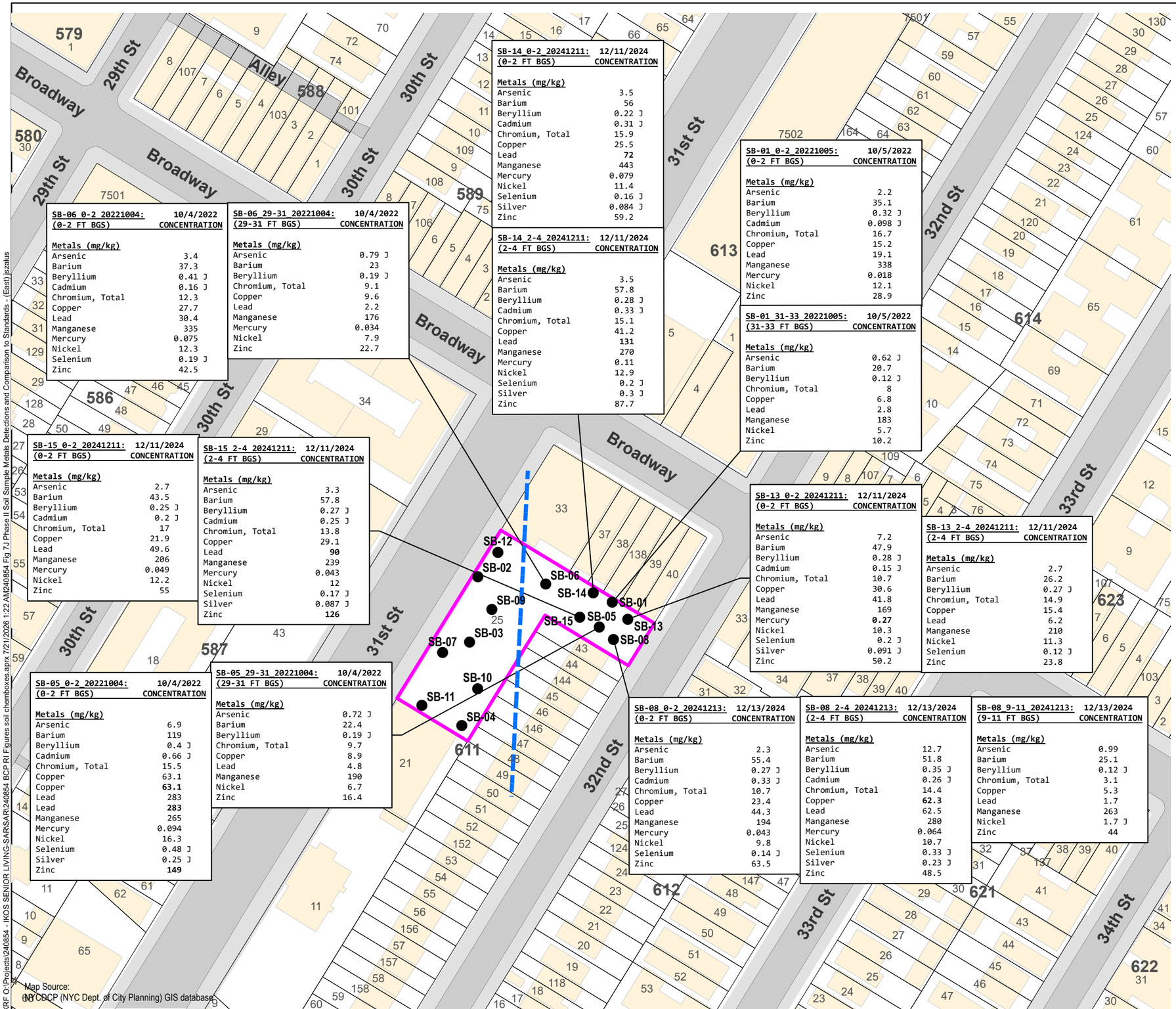
akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS (WEST)

32-11 31st Street
Queens, New York

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 7I

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 12:28 AM240854 Fig 7I Phase II Soil Sample Metals Detections and Comparison to Standards - (West) jszalus



SB-06 0-2 20221004: 10/4/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.4
Barium	37.3
Beryllium	0.41 J
Cadmium	0.16 J
Chromium, Total	12.3
Copper	27.7
Lead	30.4
Manganese	335
Mercury	0.075
Nickel	12.3
Selenium	0.19 J
Zinc	42.5

SB-06_29-31_20221004: 10/4/2022
(29-31 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.79 J
Barium	23
Beryllium	0.19 J
Chromium, Total	9.1
Copper	9.6
Lead	2.2
Manganese	176
Mercury	0.034
Nickel	7.9
Zinc	22.7

SB-14_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.5
Barium	56
Beryllium	0.22 J
Cadmium	0.31 J
Chromium, Total	15.9
Copper	25.5
Lead	**72**
Manganese	443
Mercury	0.079
Nickel	11.4
Selenium	0.16 J
Silver	0.084 J
Zinc	59.2

SB-14 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.5
Barium	57.8
Beryllium	0.28 J
Cadmium	0.33 J
Chromium, Total	15.1
Copper	41.2
Lead	**131**
Manganese	270
Mercury	0.11
Nickel	12.9
Selenium	0.2 J
Silver	0.3 J
Zinc	87.7

SB-01_0-2_20221005: 10/5/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.2
Barium	35.1
Beryllium	0.32 J
Cadmium	0.098 J
Chromium, Total	16.7
Copper	15.2
Lead	19.1
Manganese	338
Mercury	0.018
Nickel	12.1
Zinc	28.9

SB-01_31-33_20221005: 10/5/2022
(31-33 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.62 J
Barium	20.7
Beryllium	0.12 J
Chromium, Total	8
Copper	6.8
Lead	2.8
Manganese	183
Nickel	5.7
Zinc	10.2

SB-15_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.7
Barium	43.5
Beryllium	0.25 J
Cadmium	0.2 J
Chromium, Total	17
Copper	21.9
Lead	49.6
Manganese	206
Mercury	0.049
Nickel	12.2
Zinc	55

SB-15_2-4_20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	3.3
Barium	57.8
Beryllium	0.27 J
Cadmium	0.25 J
Chromium, Total	13.8
Copper	29.1
Lead	**90**
Manganese	239
Mercury	0.043
Nickel	12
Selenium	0.17 J
Silver	0.087 J
Zinc	**126**

SB-05_0-2_20221004: 10/4/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	6.9
Barium	119
Beryllium	0.4 J
Cadmium	0.66 J
Chromium, Total	15.5
Copper	63.1
Copper	**63.1**
Lead	283
Lead	**283**
Manganese	265
Mercury	0.094
Nickel	16.3
Selenium	0.48 J
Silver	0.25 J
Zinc	**149**

SB-05_29-31_20221004: 10/4/2022
(29-31 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.72 J
Barium	22.4
Beryllium	0.19 J
Chromium, Total	9.7
Copper	8.9
Lead	4.8
Manganese	190
Nickel	6.7
Zinc	16.4

SB-13_0-2_20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	7.2
Barium	47.9
Beryllium	0.28 J
Cadmium	0.15 J
Chromium, Total	10.7
Copper	30.6
Lead	41.8
Manganese	169
Mercury	**0.27**
Nickel	10.3
Selenium	0.2 J
Silver	0.091 J
Zinc	50.2

SB-13_2-4_20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.7
Barium	26.2
Beryllium	0.27 J
Chromium, Total	14.9
Copper	15.4
Lead	6.2
Manganese	210
Nickel	11.3
Selenium	0.12 J
Zinc	23.8

SB-08_0-2_20241213: 12/13/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	2.3
Barium	55.4
Beryllium	0.27 J
Cadmium	0.33 J
Chromium, Total	10.7
Copper	23.4
Lead	44.3
Manganese	194
Mercury	0.043
Nickel	9.8
Selenium	0.14 J
Zinc	63.5

SB-08_2-4_20241213: 12/13/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	12.7
Barium	51.8
Beryllium	0.35 J
Cadmium	0.26 J
Chromium, Total	14.4
Copper	**62.3**
Lead	62.5
Manganese	280
Mercury	0.064
Nickel	10.7
Selenium	0.33 J
Silver	0.23 J
Zinc	48.5

SB-08_9-11_20241213: 12/13/2024
(9-11 FT BGS) CONCENTRATION

Metals (mg/kg)	
Arsenic	0.99
Barium	25.1
Beryllium	0.12 J
Chromium, Total	3.1
Copper	5.3
Lead	1.7
Manganese	263
Nickel	1.7 J
Zinc	44

LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 2389 — BLOCK NUMBER
- BUILDING
- SOIL SAMPLE LOCATION
- EAST/WEST HALF OF SITE

N

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Metals		
Copper	280	50
Lead	400	63
Mercury	0.3	0.18
Zinc	6,600	109

0 50 100 200
SCALE IN FEET

Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	**109**

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS (EAST)

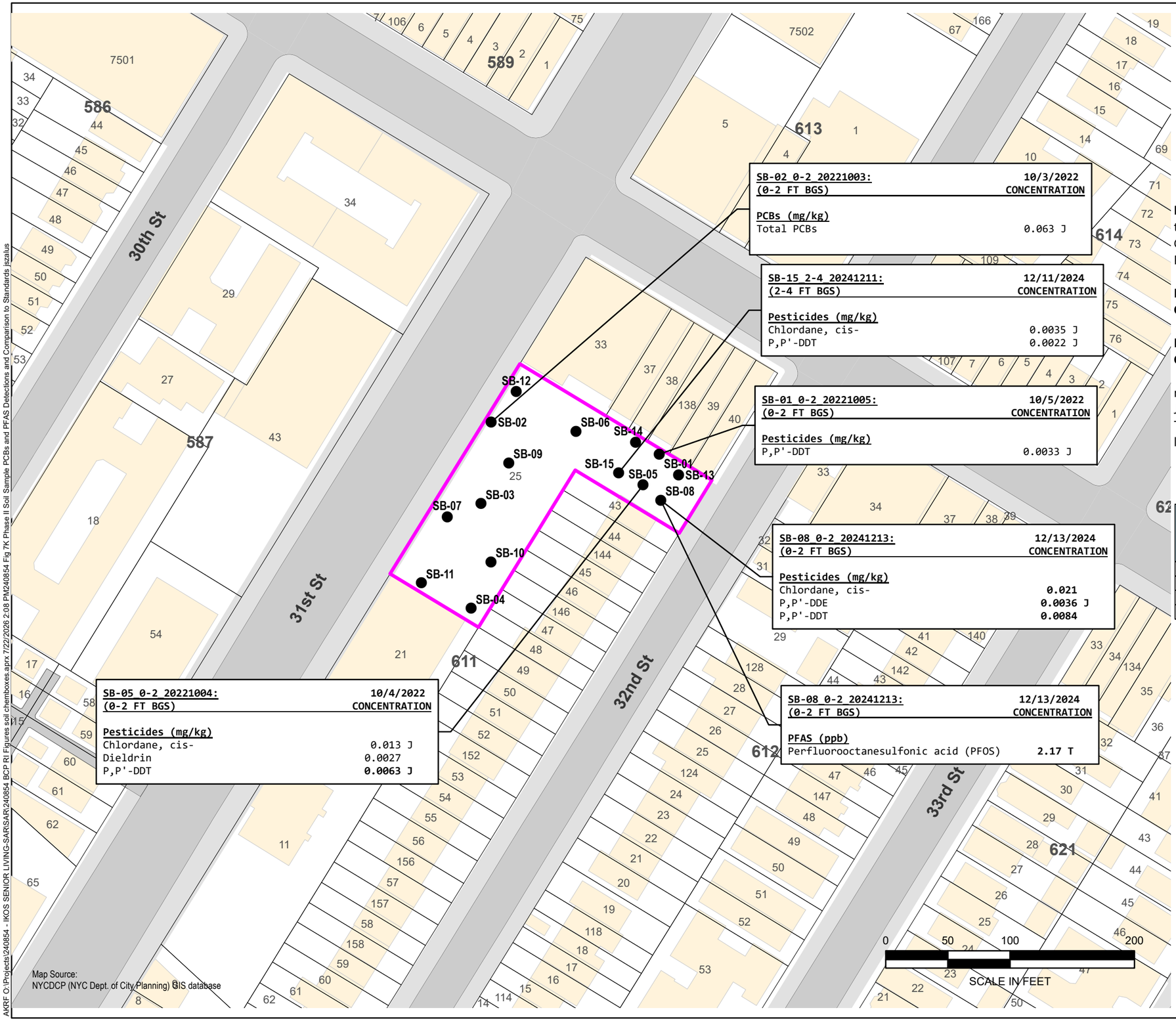
32-11 31st Street
Queens, New York

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
7J

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures soil chemboxes.aprx 7/21/2026 1:22 AM 240854 Fig 7J Phase II Soil Sample Metals Detections and Comparison to Standards - (East) jszalus



LEGEND

- BCP SITE BOUNDARY
- 20 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- BUILDING

N

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits

	PART 375 RESTRICTED RESIDENTIAL (mg/kg)	PART 375 UNRESTRICTED (mg/kg)
Pesticides		
Chlordane, cis-	0.65	0.014
P,P'-DDE	3.4	0.0033
P,P'-DDT	3.8	0.0033

	UUGV ppb	RRGV ppb
PFAS		
Perfluorooctanesulfonic acid (PFOS)	0.88	44

Sample ID — Sample Date

SB-12 0-2 20241211: (0-2 FT BGS) 12/11/2024 CONCENTRATION
Metals (mg/kg)
Lead 109

Analyte/Compound — Concentration

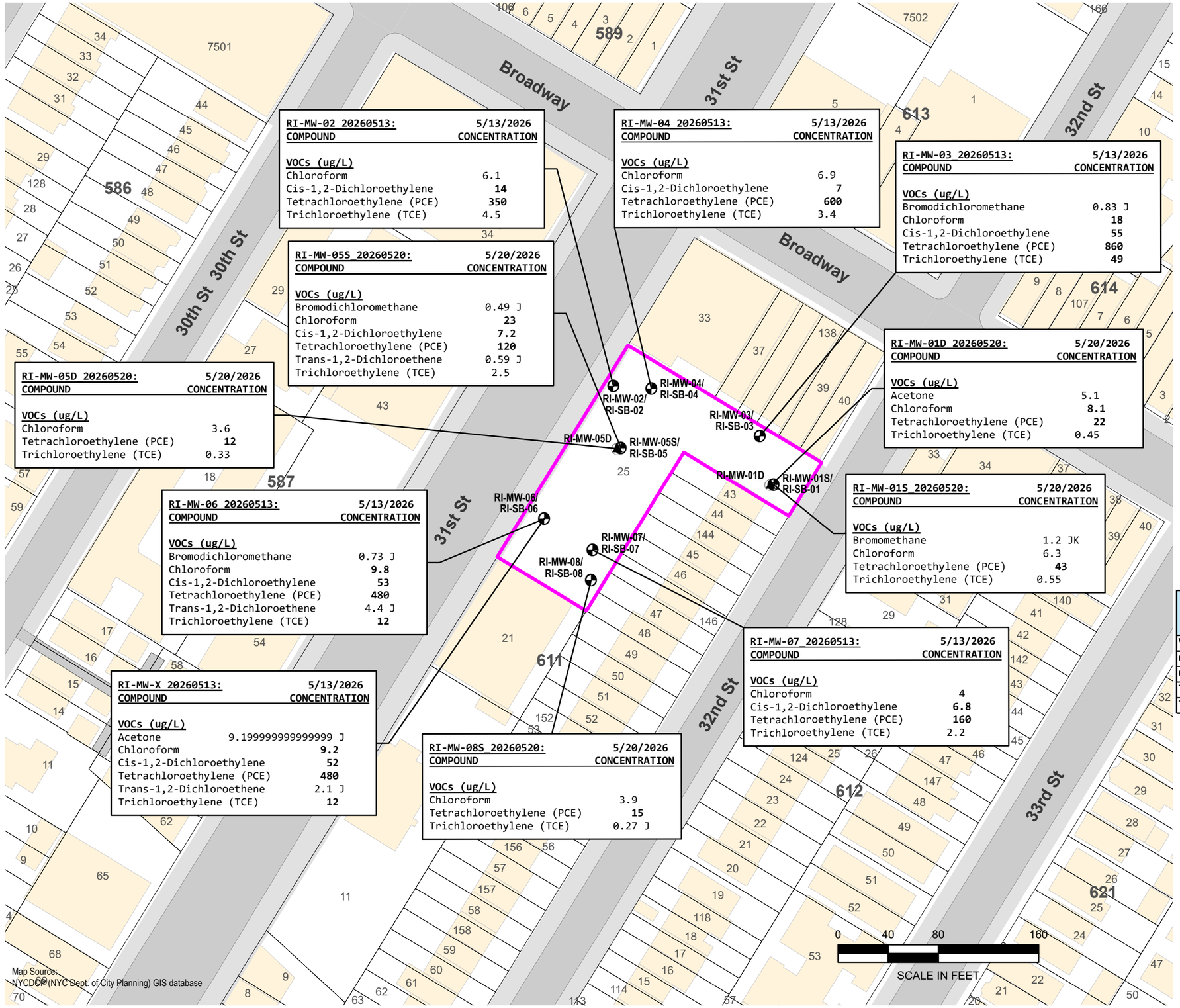
akrf
440 Park Avenue South, New York, NY 10016

PHASE II SOIL SAMPLE PCBS AND PFAS DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/22/2026
PROJECT NO. 240854
FIGURE 7K

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures soil chemboxes.aprx 7/22/2026 2:08 PM240854 Fig 7K Phase II Soil Sample PCBs and PFAS Detections and Comparison to Standards iszalus



RI-MW-02_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	6.1
Cis-1,2-Dichloroethylene	**14**
Tetrachloroethylene (PCE)	**350**
Trichloroethylene (TCE)	4.5

RI-MW-04_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	6.9
Cis-1,2-Dichloroethylene	**7**
Tetrachloroethylene (PCE)	**600**
Trichloroethylene (TCE)	3.4

RI-MW-03_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.83 J
Chloroform	**18**
Cis-1,2-Dichloroethylene	**55**
Tetrachloroethylene (PCE)	**860**
Trichloroethylene (TCE)	**49**

RI-MW-05S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.49 J
Chloroform	**23**
Cis-1,2-Dichloroethylene	**7.2**
Tetrachloroethylene (PCE)	**120**
Trans-1,2-Dichloroethene	0.59 J
Trichloroethylene (TCE)	2.5

RI-MW-05D_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	3.6
Tetrachloroethylene (PCE)	**12**
Trichloroethylene (TCE)	0.33

RI-MW-01D_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Acetone	5.1
Chloroform	**8.1**
Tetrachloroethylene (PCE)	**22**
Trichloroethylene (TCE)	0.45

RI-MW-01S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromomethane	1.2 JK
Chloroform	6.3
Tetrachloroethylene (PCE)	**43**
Trichloroethylene (TCE)	0.55

RI-MW-06_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.73 J
Chloroform	**9.8**
Cis-1,2-Dichloroethylene	**53**
Tetrachloroethylene (PCE)	**480**
Trans-1,2-Dichloroethene	4.4 J
Trichloroethylene (TCE)	**12**

RI-MW-07_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	4
Cis-1,2-Dichloroethylene	**6.8**
Tetrachloroethylene (PCE)	**160**
Trichloroethylene (TCE)	2.2

RI-MW-X_20260513: 5/13/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Acetone	9.199999999999999 J
Chloroform	**9.2**
Cis-1,2-Dichloroethylene	**52**
Tetrachloroethylene (PCE)	**480**
Trans-1,2-Dichloroethene	2.1 J
Trichloroethylene (TCE)	**12**

RI-MW-08S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	3.9
Tetrachloroethylene (PCE)	**15**
Trichloroethylene (TCE)	0.27 J

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- RI SOIL BORING/MONITORING WELL
- RI MONITORING WELL

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.
K: Reported concentration value is proportional to dilution factor and may be exaggerated..

	NYSDEC AWQSGVs (ug/l)
VOCs	
Chloroform	7
Cis-1,2-Dichloroethylene	5
Tetrachloroethylene (PCE)	5
Trichloroethylene (TCE)	5

Sample ID — Sample Date

RI-MW-01S_20260520: 5/20/2026

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromomethane	1.2 JK
Chloroform	6.3

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

RI GROUNDWATER SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS

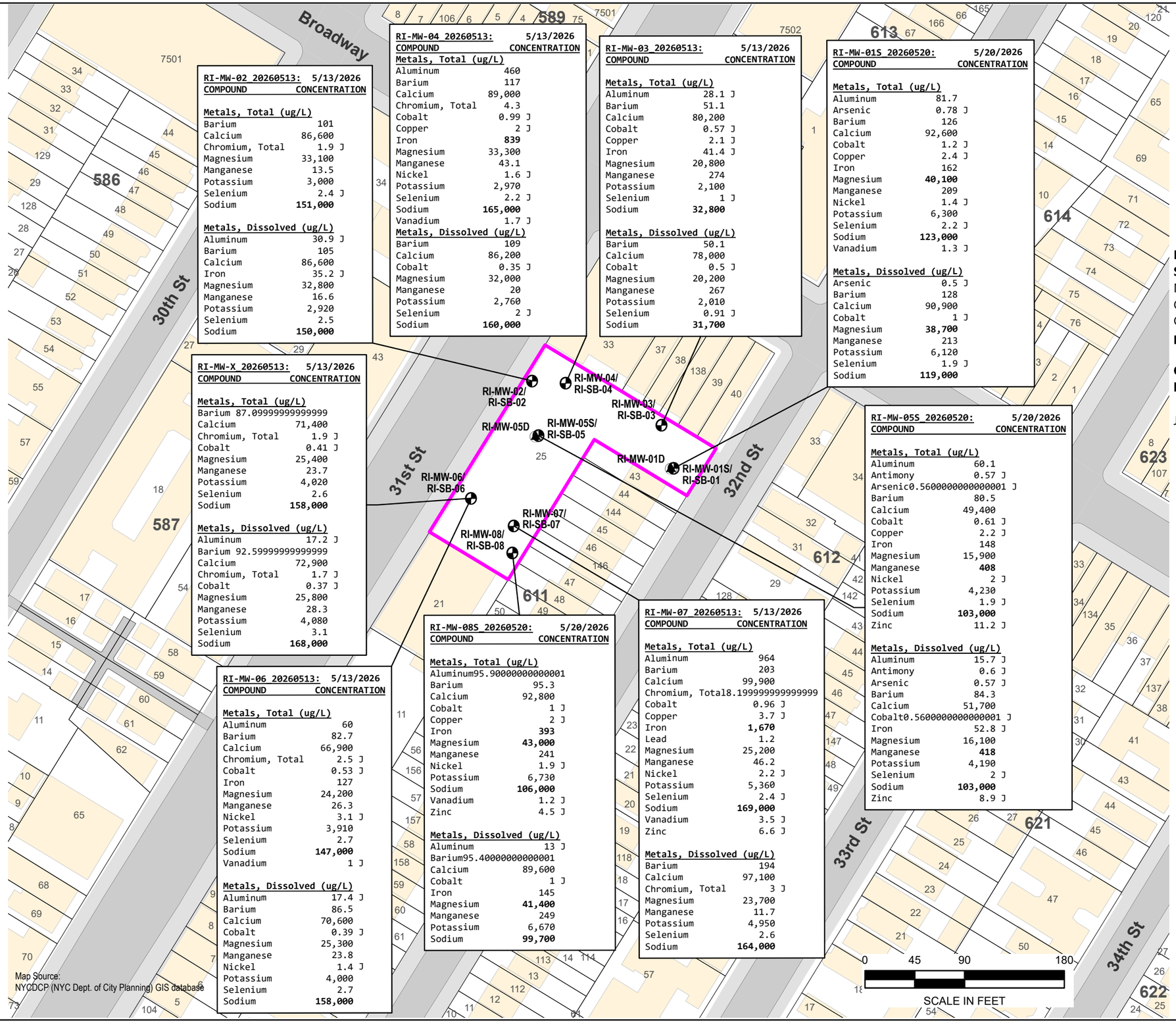
32-11 31st Street
Queens, New York

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
8A

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 9:45 AM240854 Fig 8A RI Groundwater Sample VOC Detections and Comparison to Standards jszalus



RI-MW-02 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Barium	101
Calcium	86,600
Chromium, Total	1.9 J
Magnesium	33,100
Manganese	13.5
Potassium	3,000
Selenium	2.4 J
Sodium	**151,000**
Metals, Dissolved (ug/L)	
Aluminum	30.9 J
Barium	105
Calcium	86,600
Iron	35.2 J
Magnesium	32,800
Manganese	16.6
Potassium	2,920
Selenium	2.5
Sodium	**150,000**

RI-MW-04 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	460
Barium	117
Calcium	89,000
Chromium, Total	4.3
Cobalt	0.99 J
Copper	2 J
Iron	**839**
Magnesium	33,300
Manganese	43.1
Nickel	1.6 J
Potassium	2,970
Selenium	2.2 J
Sodium	**165,000**
Vanadium	1.7 J
Metals, Dissolved (ug/L)	
Barium	109
Calcium	86,200
Cobalt	0.35 J
Magnesium	32,000
Manganese	20
Potassium	2,760
Selenium	2 J
Sodium	**160,000**

RI-MW-03 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	28.1 J
Barium	51.1
Calcium	80,200
Cobalt	0.57 J
Copper	2.1 J
Iron	41.4 J
Magnesium	20,800
Manganese	274
Potassium	2,100
Selenium	1 J
Sodium	**32,800**
Metals, Dissolved (ug/L)	
Barium	50.1
Calcium	78,000
Cobalt	0.5 J
Magnesium	20,200
Manganese	267
Potassium	2,010
Selenium	0.91 J
Sodium	**31,700**

RI-MW-01S 20260520: 5/20/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	81.7
Arsenic	0.78 J
Barium	126
Calcium	92,600
Cobalt	1.2 J
Copper	2.4 J
Iron	162
Magnesium	**40,100**
Manganese	209
Nickel	1.4 J
Potassium	6,300
Selenium	2.2 J
Sodium	**123,000**
Vanadium	1.3 J
Metals, Dissolved (ug/L)	
Arsenic	0.5 J
Barium	128
Calcium	90,900
Cobalt	1 J
Magnesium	**38,700**
Manganese	213
Potassium	6,120
Selenium	1.9 J
Sodium	**119,000**

RI-MW-X 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Barium 87.09999999999999	
Calcium	71,400
Chromium, Total	1.9 J
Cobalt	0.41 J
Magnesium	25,400
Manganese	23.7
Potassium	4,020
Selenium	2.6
Sodium	**158,000**
Metals, Dissolved (ug/L)	
Aluminum	17.2 J
Barium 92.59999999999999	
Calcium	72,900
Chromium, Total	1.7 J
Cobalt	0.37 J
Magnesium	25,800
Manganese	28.3
Potassium	4,080
Selenium	3.1
Sodium	**168,000**

RI-MW-05S 20260520: 5/20/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	60.1
Antimony	0.57 J
Arsenic0.5600000000000001	J
Barium	80.5
Calcium	49,400
Cobalt	0.61 J
Copper	2.2 J
Iron	148
Magnesium	15,900
Manganese	**408**
Nickel	2 J
Potassium	4,230
Selenium	1.9 J
Sodium	**103,000**
Zinc	11.2 J
Metals, Dissolved (ug/L)	
Aluminum	15.7 J
Antimony	0.6 J
Arsenic	0.57 J
Barium	84.3
Calcium	51,700
Cobalt0.5600000000000001	J
Iron	52.8 J
Magnesium	16,100
Manganese	**418**
Potassium	4,190
Selenium	2 J
Sodium	**103,000**
Zinc	8.9 J

RI-MW-06 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	60
Barium	82.7
Calcium	66,900
Chromium, Total	2.5 J
Cobalt	0.53 J
Iron	127
Magnesium	24,200
Manganese	26.3
Nickel	3.1 J
Potassium	3,910
Selenium	2.7
Sodium	**147,000**
Vanadium	1 J
Metals, Dissolved (ug/L)	
Aluminum	17.4 J
Barium	86.5
Calcium	70,600
Cobalt	0.39 J
Magnesium	25,300
Manganese	23.8
Nickel	1.4 J
Potassium	4,000
Selenium	2.7
Sodium	**158,000**

RI-MW-08S 20260520: 5/20/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum95.90000000000001	
Barium	95.3
Calcium	92,800
Cobalt	1 J
Copper	2 J
Iron	**393**
Magnesium	**43,000**
Manganese	241
Nickel	1.9 J
Potassium	6,730
Sodium	**106,000**
Vanadium	1.2 J
Zinc	4.5 J
Metals, Dissolved (ug/L)	
Aluminum	13 J
Barium95.40000000000001	
Calcium	89,600
Cobalt	1 J
Iron	145
Magnesium	**41,400**
Manganese	249
Potassium	6,670
Sodium	**99,700**

RI-MW-07 20260513: 5/13/2026

COMPOUND	CONCENTRATION
Metals, Total (ug/L)	
Aluminum	964
Barium	203
Calcium	99,900
Chromium, Total	8.199999999999999
Cobalt	0.96 J
Copper	3.7 J
Iron	**1,670**
Lead	1.2
Magnesium	25,200
Manganese	46.2
Nickel	2.2 J
Potassium	5,360
Selenium	2.4 J
Sodium	**169,000**
Vanadium	3.5 J
Zinc	6.6 J
Metals, Dissolved (ug/L)	
Barium	194
Calcium	97,100
Chromium, Total	3 J
Magnesium	23,700
Manganese	11.7
Potassium	4,950
Selenium	2.6
Sodium	**164,000**

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- RI SOIL BORING/MONITORING WELL
- RI MONITORING WELL

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs (ug/l)
Metals, Total	
Iron	300
Magnesium	35,000
Manganese	300
Sodium	20,000

Sample ID — Sample Date

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	6.7
Tetrachloroethylene (PCE)	19

Analyte/Compound — Concentration

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32-11 31st Street
Queens, New York

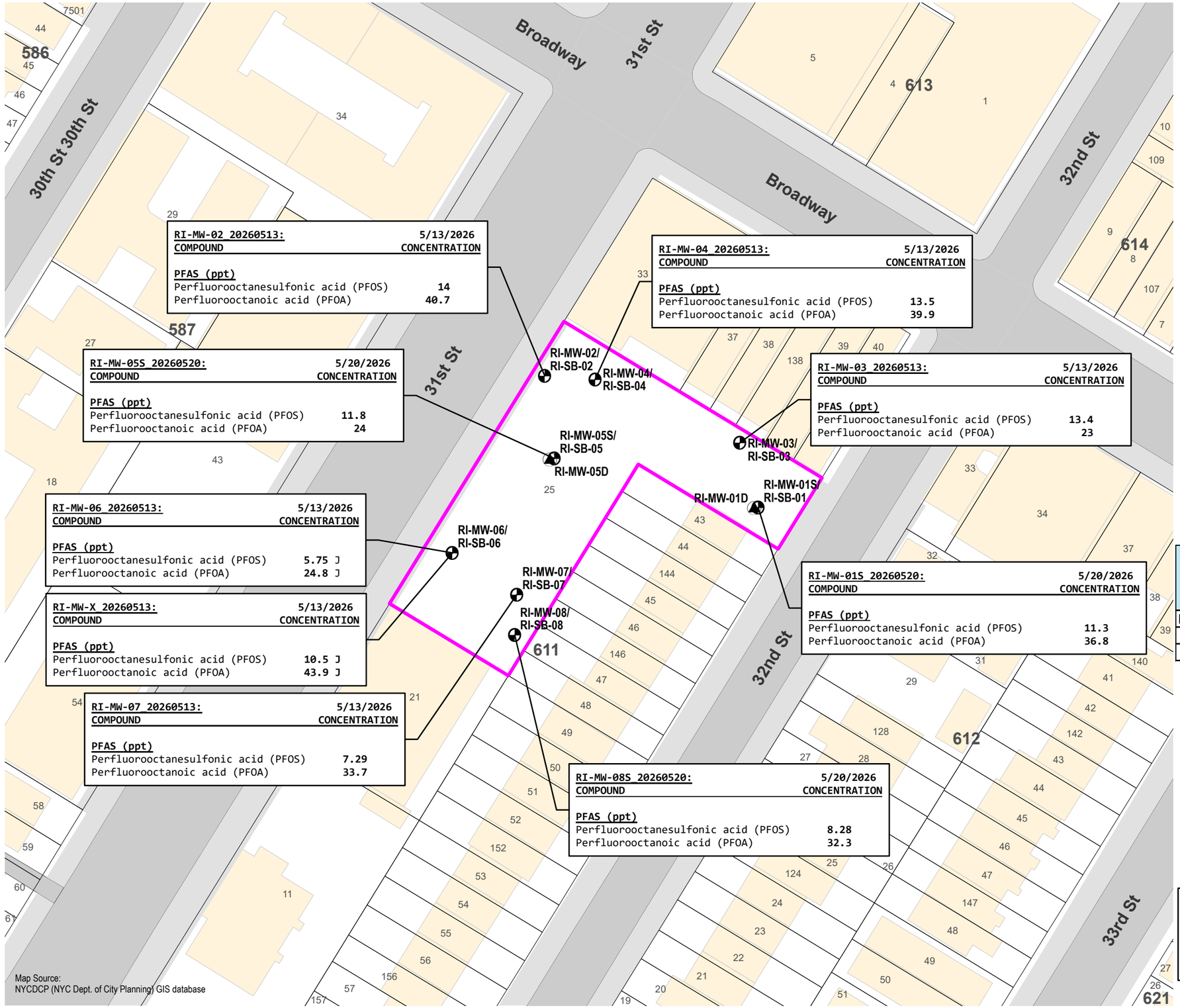
RI GROUNDWATER SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
8B

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV, etc.aprx 7/21/2026 9:45 AM240854 Fig 8B RI Groundwater Sample Metals Detections and Comparison to Standards jszalus



LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- SOIL BORING/MONITORING WELL
- MONITORING WELL

N

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	PFAS Groundwater ppt
PFAS	
Perfluorooctanesulfonic acid (PFOS)	2.7
Perfluorooctanoic acid (PFOA)	6.7

0 30 60 120
SCALE IN FEET

Sample ID — Sample Date

RI-MW-08S 20260520: 5/20/2026
COMPOUND CONCENTRATION
PFAS (ppt)
Perfluorooctanesulfonic acid (PFOS) 8.28
Perfluorooctanoic acid (PFOA) 32.3

Analyte/Compound — Concentration

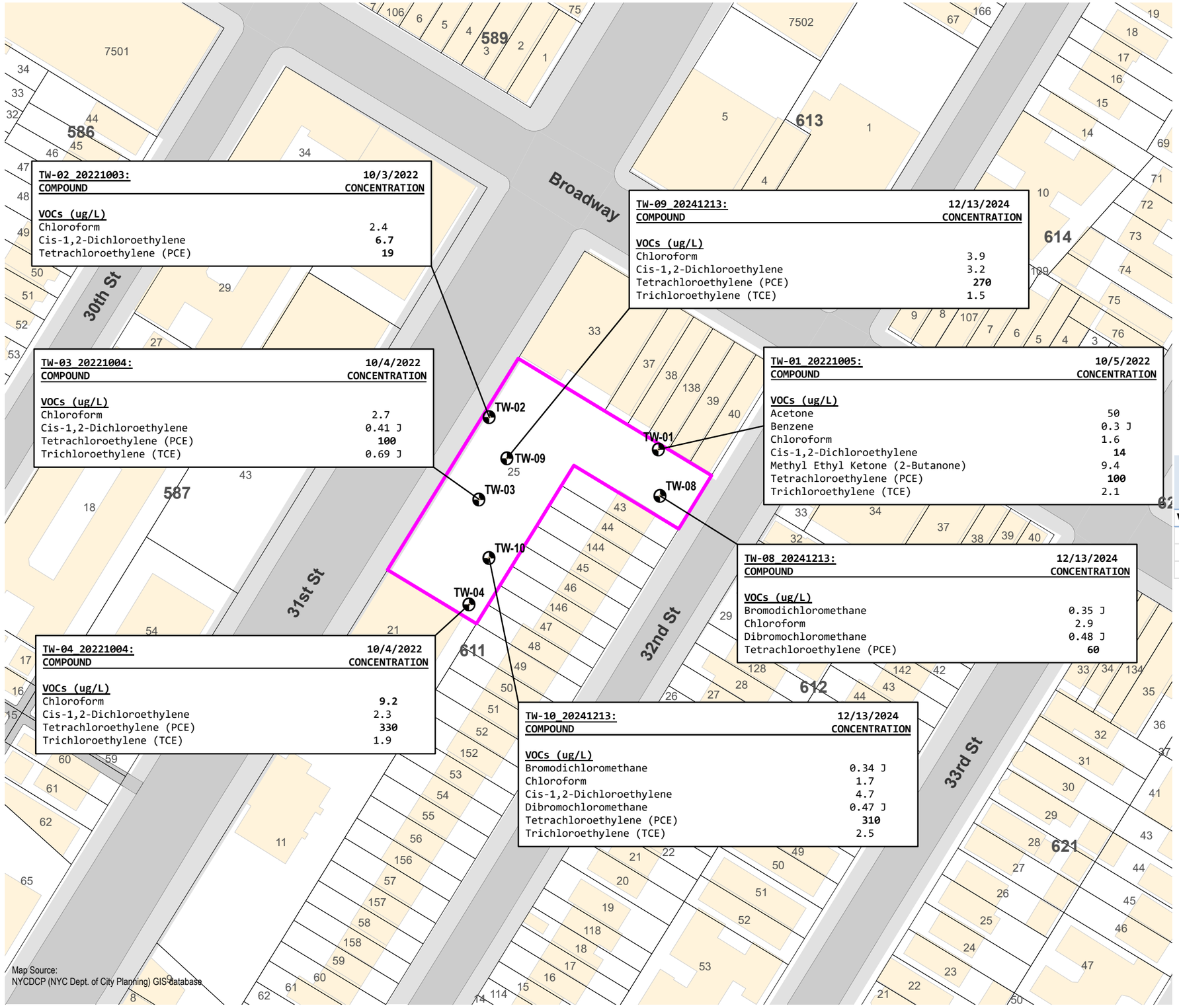
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RI GROUNDWATER SAMPLE PFAS DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 8C

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc aprx 7/21/2026 9:50 AM240854 Fig 8C RI Groundwater Sample PFAS Detections and Comparison to Standards jszalus



TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	2.4
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**

TW-09 20241213: 12/13/2024

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	3.9
Cis-1,2-Dichloroethylene	3.2
Tetrachloroethylene (PCE)	**270**
Trichloroethylene (TCE)	1.5

TW-03 20221004: 10/4/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	2.7
Cis-1,2-Dichloroethylene	0.41 J
Tetrachloroethylene (PCE)	**100**
Trichloroethylene (TCE)	0.69 J

TW-01 20221005: 10/5/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Acetone	50
Benzene	0.3 J
Chloroform	1.6
Cis-1,2-Dichloroethylene	**14**
Methyl Ethyl Ketone (2-Butanone)	9.4
Tetrachloroethylene (PCE)	**100**
Trichloroethylene (TCE)	2.1

TW-08 20241213: 12/13/2024

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.35 J
Chloroform	2.9
Dibromochloromethane	0.48 J
Tetrachloroethylene (PCE)	**60**

TW-04 20221004: 10/4/2022

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Chloroform	**9.2**
Cis-1,2-Dichloroethylene	2.3
Tetrachloroethylene (PCE)	**330**
Trichloroethylene (TCE)	1.9

TW-10 20241213: 12/13/2024

COMPOUND	CONCENTRATION
VOCs (ug/L)	
Bromodichloromethane	0.34 J
Chloroform	1.7
Cis-1,2-Dichloroethylene	4.7
Dibromochloromethane	0.47 J
Tetrachloroethylene (PCE)	**310**
Trichloroethylene (TCE)	2.5

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- GROUNDWATER SAMPLE LOCATION

N

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs µg/l
Volatile Organic Compounds	
Chloroform	7
Cis-1,2-Dichloroethylene	5
Tetrachloroethylene (PCE)	5

Sample ID — Sample Date

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**

Analyte/Compound — Concentration

0 40 80 160

SCALE IN FEET

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32-11 31st Street
Queens, New York

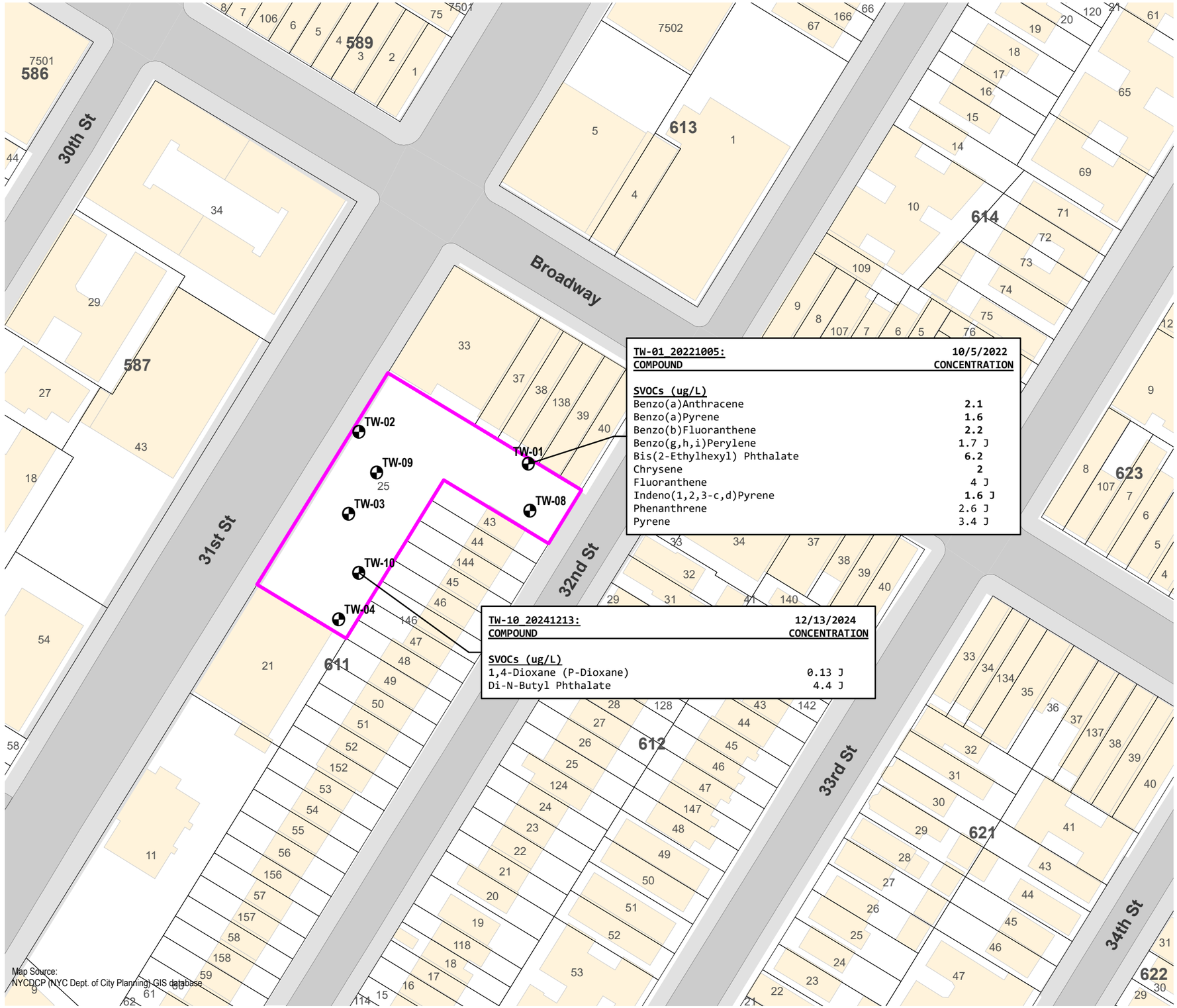
PHASE II GROUNDWATER SAMPLE VOC DETECTIONS AND COMPARISON TO STANDARDS

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
8D

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 9:52 AM\240854 Fig 8D Phase II Groundwater Sample VOC Detections and Comparison to Standards jszalus



LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDING
- GROUNDWATER SAMPLE LOCATION

N

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1):
µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs µg/l
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.002
Benzo(a)Pyrene	0
Benzo(b)Fluoranthene	0.002
Bis(2-Ethylhexyl) Phthalate	5
Chrysene	0.002
Indeno(1,2,3-c,d)Pyrene	0.002

Sample ID — Sample Date

TW-10 20241213: 12/13/2024
COMPOUND CONCENTRATION
SVOCs (ug/L)
1,4-Dioxane (P-Dioxane) 0.13 J
Di-N-Butyl Phthalate 4.4 J

Analyte/Compound — Concentration

0 40 80 160
SCALE IN FEET

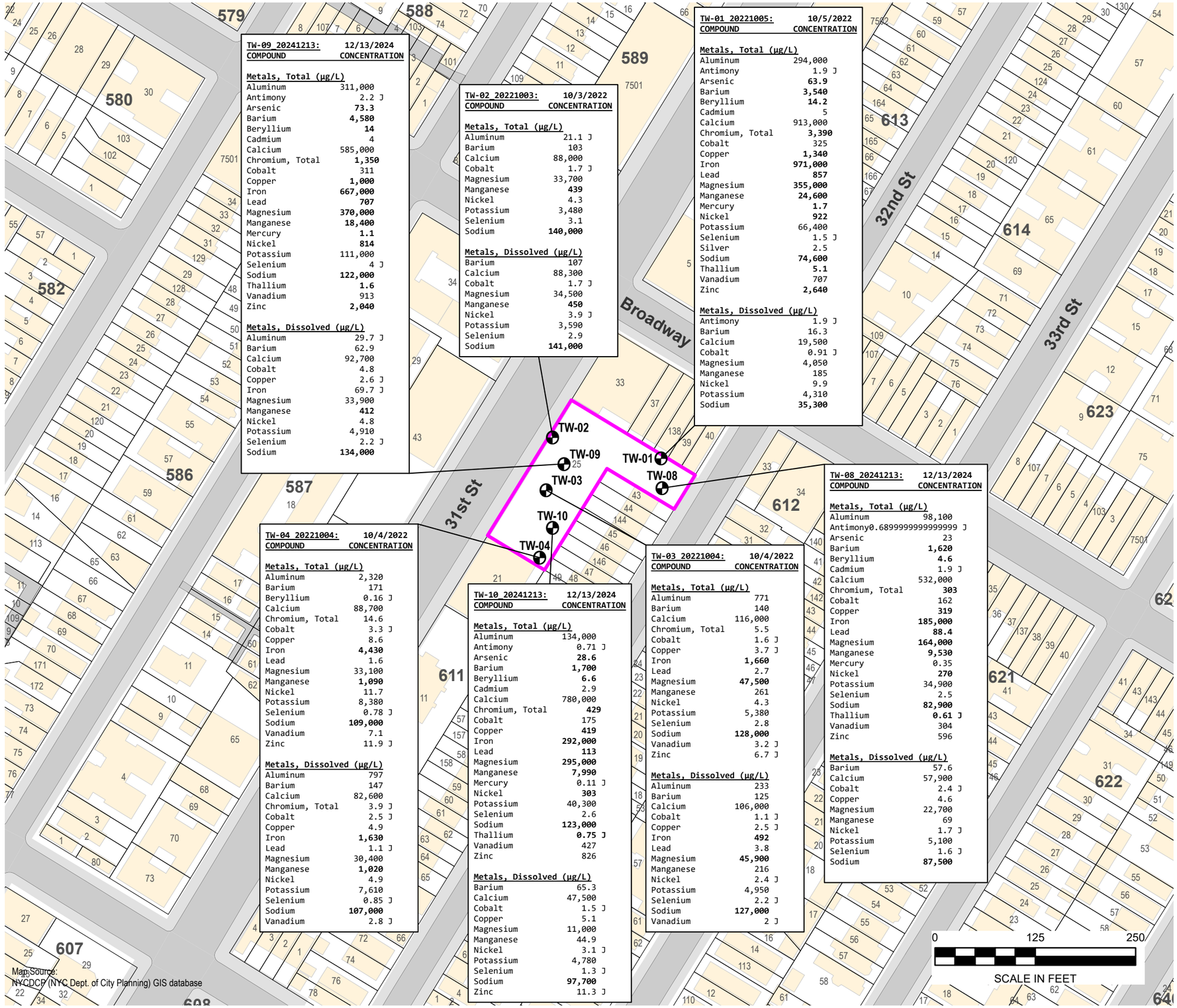
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Queens, New York

PHASE II GROUNDWATER SAMPLE SVOC DETECTIONS AND COMPARISON TO STANDARDS

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 8E

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 9:57 AM240854 Fig 8E Phase II Groundwater Sample SVOC Detections and Comparison to Standards jszalus



LEGEND

- BCP SITE BOUNDARY
- 2389 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDINGS
- GROUNDWATER SAMPLE LOCATION

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC)
Technical and Operational Guidance Series (TOGS) (1.1.1):

µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs µg/l
Metals	
Arsenic	25
Barium	1,000
Beryllium	3
Chromium, Total	50
Copper	200
Iron	300
Lead	25
Magnesium	35,000
Manganese	300
Mercury	0.7
Nickel	100
Sodium	20,000
Thallium	0.5
Zinc	2,000

Sample ID — Sample Date

TW-08_20241213: 12/13/2024
COMPOUND CONCENTRATION
Metals, Total (µg/L)
Aluminum 98,100

Analyte/Compound — Concentration

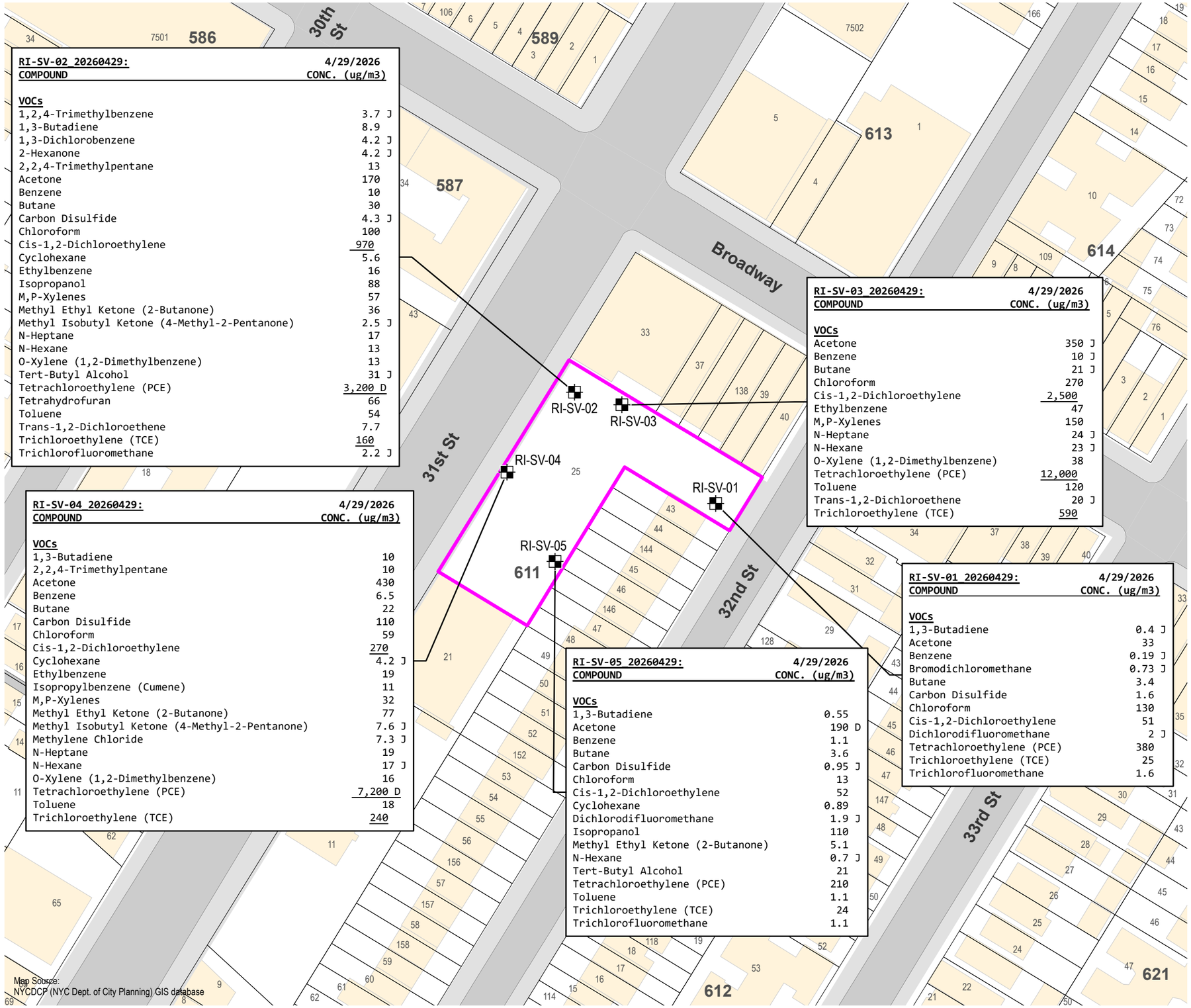
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PHASE II GROUNDWATER SAMPLE METALS DETECTIONS AND COMPARISON TO STANDARDS

32-11 31st Street
Queens, New York

DATE 7/7/2026
PROJECT NO. 240854
FIGURE 8F

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures all others.aprx 7/7/2026 1:56 PM\240854 Fig 8F Phase II Groundwater Sample Metals Detections and Comparison to Standards jszalus



RI-SV-02_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,2,4-Trimethylbenzene	3.7 J
1,3-Butadiene	8.9
1,3-Dichlorobenzene	4.2 J
2-Hexanone	4.2 J
2,2,4-Trimethylpentane	13
Acetone	170
Benzene	10
Butane	30
Carbon Disulfide	4.3 J
Chloroform	100
Cis-1,2-Dichloroethylene	**970**
Cyclohexane	5.6
Ethylbenzene	16
Isopropanol	88
M,P-Xylenes	57
Methyl Ethyl Ketone (2-Butanone)	36
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.5 J
N-Heptane	17
N-Hexane	13
O-Xylene (1,2-Dimethylbenzene)	13
Tert-Butyl Alcohol	31 J
Tetrachloroethylene (PCE)	**3,200 D**
Tetrahydrofuran	66
Toluene	54
Trans-1,2-Dichloroethene	7.7
Trichloroethylene (TCE)	**160**
Trichlorofluoromethane	2.2 J

RI-SV-03_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
Acetone	350 J
Benzene	10 J
Butane	21 J
Chloroform	270
Cis-1,2-Dichloroethylene	**2,500**
Ethylbenzene	47
M,P-Xylenes	150
N-Heptane	24 J
N-Hexane	23 J
O-Xylene (1,2-Dimethylbenzene)	38
Tetrachloroethylene (PCE)	**12,000**
Toluene	120
Trans-1,2-Dichloroethene	20 J
Trichloroethylene (TCE)	**590**

RI-SV-04_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,3-Butadiene	10
2,2,4-Trimethylpentane	10
Acetone	430
Benzene	6.5
Butane	22
Carbon Disulfide	110
Chloroform	59
Cis-1,2-Dichloroethylene	**270**
Cyclohexane	4.2 J
Ethylbenzene	19
Isopropylbenzene (Cumene)	11
M,P-Xylenes	32
Methyl Ethyl Ketone (2-Butanone)	77
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	7.6 J
Methylene Chloride	7.3 J
N-Heptane	19
N-Hexane	17 J
O-Xylene (1,2-Dimethylbenzene)	16
Tetrachloroethylene (PCE)	**7,200 D**
Toluene	18
Trichloroethylene (TCE)	**240**

RI-SV-05_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,3-Butadiene	0.55
Acetone	190 D
Benzene	1.1
Butane	3.6
Carbon Disulfide	0.95 J
Chloroform	13
Cis-1,2-Dichloroethylene	52
Cyclohexane	0.89
Dichlorodifluoromethane	1.9 J
Isopropanol	110
Methyl Ethyl Ketone (2-Butanone)	5.1
N-Hexane	0.7 J
Tert-Butyl Alcohol	21
Tetrachloroethylene (PCE)	210
Toluene	1.1
Trichloroethylene (TCE)	24
Trichlorofluoromethane	1.1

RI-SV-01_20260429: 4/29/2026

COMPOUND	CONC. (ug/m3)
VOCs	
1,3-Butadiene	0.4 J
Acetone	33
Benzene	0.19 J
Bromodichloromethane	0.73 J
Butane	3.4
Carbon Disulfide	1.6
Chloroform	130
Cis-1,2-Dichloroethylene	51
Dichlorodifluoromethane	2 J
Tetrachloroethylene (PCE)	380
Trichloroethylene (TCE)	25
Trichlorofluoromethane	1.6

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

N

LEGEND

- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDINGS
- SOIL VAPOR POINT

SOIL VAPOR

Detections that exceed the NYSDOH Soil Vapor/ Indoor Air Decision Matrix Values that require mitigation regardless of indoor air concentration are **underlined**.

µg/m³- micrograms per cubic meter

J: The reported value is estimated.
D: Analyte concentration obtained from dilution.

Sample ID — Sample Date

SV-11 20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
Chloroform	3.1 J
Cis-1,2-Dichloroethylene	7.9

Analyte/Compound — Concentration

0 40 80 160
SCALE IN FEET

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32-11 31st Street
Queens, New York

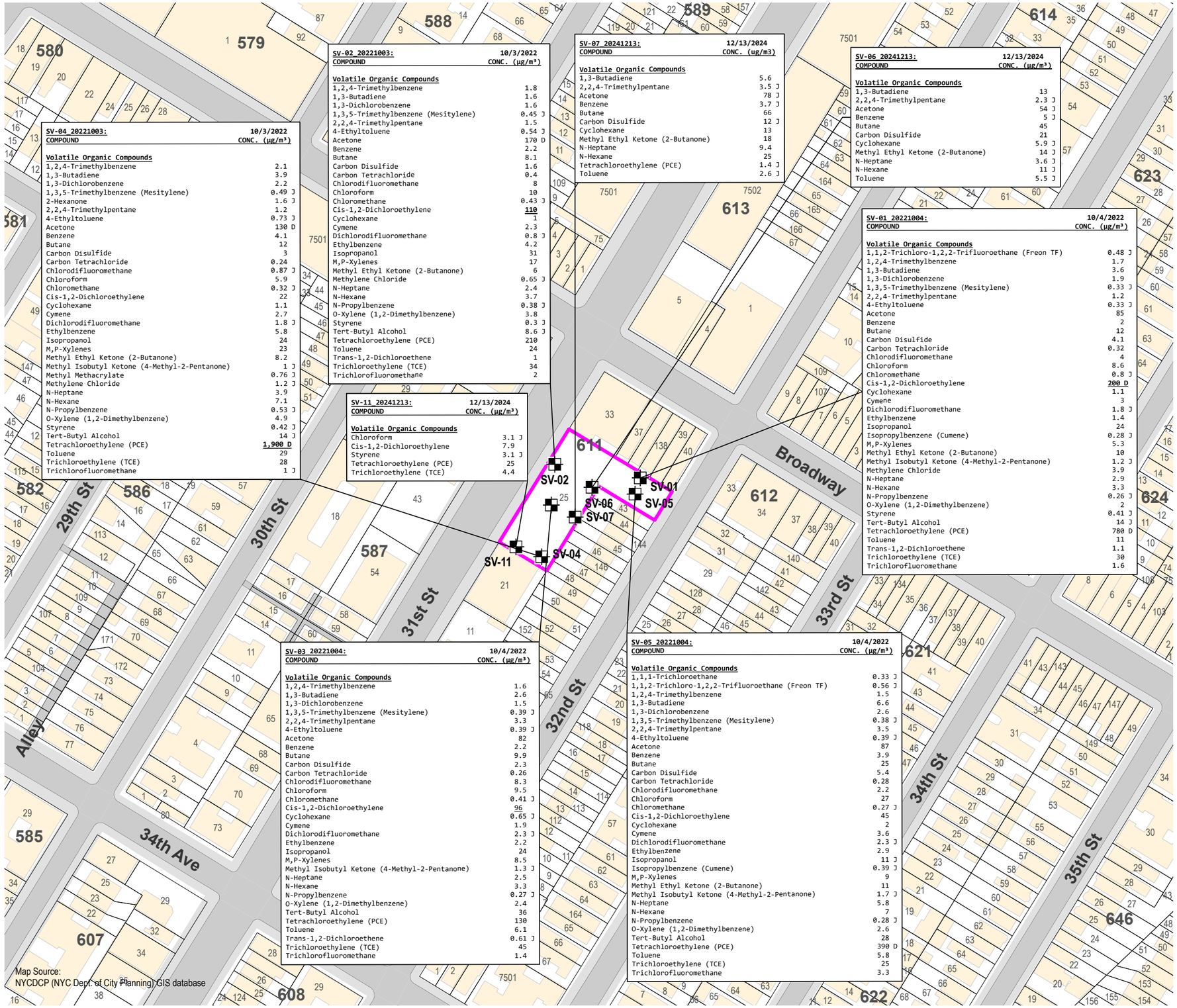
RI SOIL VAPOR DETECTIONS

DATE
7/21/2026

PROJECT NO.
240854

FIGURE
9A

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 10:02 AM240854 Fig 9A RI Soil Vapor Detections jszalus



N

LEGEND

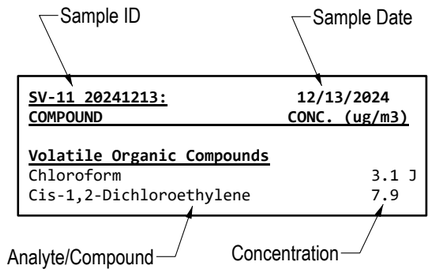
- BCP SITE BOUNDARY
- 611 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- BUILDINGS
- SOIL VAPOR SAMPLE LOCATION

SOIL VAPOR

Detections that exceed the NYSDOH Soil Vapor/ Indoor Air Decision Matrix Values that require mitigation regardless of indoor air concentration are **underlined**.

µg/m³- micrograms per cubic meter

J: The reported value is estimated.
D: Analyte concentration obtained from dilution.



0 75 150 300
SCALE IN FEET

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32-11 31st Street
Queens, New York

PHASE II SOIL VAPOR DETECTIONS

DATE 7/21/2026
PROJECT NO. 240854
FIGURE 9B

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARSAR\240854 BCP RI Figures GW SV etc.aprx 7/21/2026 10:02 AM240854 Fig 9B Phase II Soil Vapor Detections jszalus

TABLES

Table 1
32-11 31st Street
Queens, NY
Remedial Investigation
Groundwater Elevation Data

Well ID	Top of Casing Elevation (ft.)	Depth to Groundwater (ft. below TOC)	Groundwater Elevation (ft.)
RI-MW-01S	51.68	31.6	20.08
RI-MW-01D	51.69	31.69	20.00
RI-MW-02	49.84	29.91	19.93
RI-MW-03	51.58	31.28	20.3
RI-MW-04	50.32	30.29	20.03
RI-MW-05S	51.95	32.07	19.88
RI-MW-05D	51.59	31.6	19.99
RI-MW-06	51.61	32.79	18.82
RI-MW-07	54.17	35.03	19.14
RI-MW-08	55.32	36.12	19.2

Notes:
ft. = feet
TOC = top of casing
Elevation = feet above mean sea level based on the North American Vertical Datum of 1988 (NAVD88).

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
			Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
			Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.00028	J	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
2-Hexanone	NS	NS	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Acetone	**0.03**	100	N/A	0.0063	U	0.0087		0.011		0.0066		0.0093	J	0.0065	U
Benzene	0.06	3.7	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Bromodichloromethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Bromoform	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0018	U	0.0019	U	0.002	U	0.002	U	0.0022	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Chloroethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Chloromethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Cyclohexane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
M,P-Xylenes	NS	NS	N/A	0.00044	J	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Methyl Acetate	NS	NS	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0052	U	0.0046	U	0.0049	U	0.005	U	0.0051	U	0.0054	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0018	U	0.0019	U	0.002	U	0.002	UJ	0.0022	UJ
N-Butylbenzene	18	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
N-Propylbenzene	5	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Sec-Butylbenzene	25	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Styrene	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
T-Butylbenzene	11	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.001	U	0.0034		0.001		0.0011		0.00084	J	0.0011	
Toluene	0.7	100	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	UJ	0.0011	UJ
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.00092	U	0.00097	U	0.00046	J	0.001	UJ	0.0011	UJ
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.00092	U	0.00097	U	0.001	U	0.001	U	0.0011	U
Xylenes, Total	0.26	100	N/A	0.00044	J	0.0018	U	0.0019	U	0.002	U	0.002	UJ	0.0022	UJ

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
			Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
			Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1,2-Trichloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1-Dichloroethane	0.27	47	0.27	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	UJ	0.0011	UJ	0.001	UJ	0.0015	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,2-Dichloropropane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
2-Hexanone	NS	NS	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	U
Acetone	**0.03**	100	N/A	0.008	U	0.0075	U	0.0074	U	0.0064	U	0.0068		0.017	
Benzene	0.06	3.7	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Bromochloromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Bromodichloromethane	NS	NS	NS	0.0013	UJ	0.0013	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.0015	U
Bromoform	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Bromomethane	NS	NS	N/A	0.0027	U	0.0025	U	0.0025	U	0.0021	U	0.0021	U	0.003	U
Carbon Disulfide	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chlorobenzene	4.5	100	4.5	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chloroform	0.37	24	0.37	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Chloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Cyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Dibromochloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Dichlorodifluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Ethylbenzene	1	76	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
M,P-Xylenes	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Methyl Acetate	NS	NS	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0066	U	0.0063	U	0.0062	U	0.0053	U	0.0052	U	0.0075	U
Methylcyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Methylene Chloride	0.05	81	0.05	0.0027	U	0.0025	U	0.0025	U	0.0021	U	0.0021	U	0.003	U
N-Butylbenzene	18	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
N-Propylbenzene	5	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Sec-Butylbenzene	25	100	N/A	0.0013	UJ	0.0013	UJ	0.0012	U	0.0011	U	0.001	U	0.0015	U
Styrene	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
T-Butylbenzene	11	100	N/A	0.0013	UJ	0.0013	UJ	0.0012	U	0.0011	U	0.001	U	0.0015	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013	U	0.0013	U	0.00054	J	0.0011		0.0021		0.0015	U
Toluene	0.7	100	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Trichlorofluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	U
Vinyl Chloride	0.03	0.48	0.03	0.0013	U	0.0013	U	0.0012	U	0.0011	U	0.001	U	0.0015	UJ
Xylenes, Total	0.26	100	N/A	0.0027	U	0.0025	U	0.0025	U	0.0021	U	0.0021	U	0.003	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
			Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	UJ	0.0011	UJ	0.001	UJ	0.0011	U	0.0012	U	0.0014	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0054	U	0.0052	U	0.0056	U	0.0059	U	0.0071	U
Acetone	**0.03**	100	N/A	0.014		0.0064	U	0.013		0.0095		0.007	U	0.0085	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Bromoform	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	UJ	0.0012	U	0.0014	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0021	U	0.0021	U	0.0023	U	0.0023	U	0.0028	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chloroform	0.37	24	0.37	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Chloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0011	U	0.0021		0.0011	U	0.0012	U	0.0014	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0054	U	0.0052	U	0.0056	U	0.0059	U	0.0071	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	UJ	0.0054	UJ	0.0052	UJ	0.0056	U	0.0059	UJ	0.0071	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0054	U	0.0052	U	0.0056	U	0.0059	U	0.0071	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0021	U	0.0021	U	0.0023	U	0.0023	U	0.0028	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0011	U	0.00076	J	0.0011	U	0.0012	U	0.0014	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Styrene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013		0.0012		0.00096	J	0.00039	J	0.0027	J	0.012	J
Toluene	0.7	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0014		0.0018	
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0012	U	0.0014	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	UJ	0.0011	UJ	0.001	UJ	0.0011	U	0.0012	U	0.0014	U
Xylenes, Total	0.26	100	N/A	0.0021	U	0.0021	U	0.0029		0.0023	U	0.0023	U	0.0028	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
			Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
			Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	UJ	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.0055	U	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Acetone	**0.03**	100	N/A	0.0066	U	0.007	U	0.007	U	0.0073	U	0.016		0.0085	
Benzene	0.06	3.7	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	UJ	0.00096	UJ	0.0011	UJ
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Bromoform	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	UJ	0.00096	UJ	0.0011	UJ
Bromomethane	NS	NS	N/A	0.0022	U	0.0023	U	0.0023	U	0.0024	U	0.0019	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chloroform	0.37	24	0.37	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Chloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0012	UJ	0.0012	UJ	0.0012	U	0.00096	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.0055	U	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0055	UJ	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0055	U	0.0058	U	0.0059	U	0.0061	U	0.0048	U	0.0057	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0023	U	0.0023	U	0.0024	U	0.0019	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Styrene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.055		0.0012	U	0.0012	U	0.0011	J	0.0035	JK	0.0017	
Toluene	0.7	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.00085	J	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0012	U	0.00096	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	UJ	0.0012	U	0.0012	U	0.0012	UJ	0.00096	UJ	0.0011	UJ
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0023	U	0.0023	U	0.0024	U	0.0019	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
			Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
			Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	UJ	0.0012	UJ	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	U	0.0012	UJ	0.0012	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Acetone	**0.03**	100	N/A	0.019		0.0079		0.007	U	0.0077		0.0073	U	0.0071	U
Benzene	0.06	3.7	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromoform	NS	NS	N/A	0.001	UJ	0.0012	UJ	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Bromomethane	NS	NS	N/A	0.002	U	0.0024	U	0.0023	U	0.0024	U	0.0024	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chloroethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chloroform	0.37	24	0.37	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Chloromethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Ethylbenzene	1	76	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0051	U	0.0059	U	0.0058	U	0.0061	U	0.0061	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
Methylene Chloride	0.05	81	0.05	0.002	U	0.0024	U	0.0023	U	0.0024	U	0.0024	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
N-Propylbenzene	5	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
Styrene	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.001	U	0.0012	U	0.0012	UJ	0.0012	UJ	0.0012	UJ	0.0012	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0014		0.00052	J	0.0061		0.0093		0.00038	J	0.00054	J
Toluene	0.7	100	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.002	U	0.0024	U	0.0023	U	0.0024	U	0.0024	U	0.0024	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
			Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
			Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0013	UJ	0.001	UJ	0.0012	UJ	0.00098	UJ	0.0012	UJ
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0056	U	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Acetone	**0.03**	100	N/A	0.0067	U	0.0087		0.012		0.0072	U	0.0059	U	0.0071	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0013	UJ	0.001	UJ	0.0012	UJ	0.00098	UJ	0.0012	UJ
Bromoform	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0022	U	0.0027	U	0.002	U	0.0024	U	0.002	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0056	U	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0056	U	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0056	UJ	0.0067	U	0.0051	U	0.006	U	0.0049	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0027	U	0.002	U	0.0024	U	0.002	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
N-Propylbenzene	5	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
Styrene	NS	NS	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	UJ	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013	JL	0.00084	J	0.0004	J	0.0012	U	0.00098	U	0.001	J
Toluene	0.7	100	N/A	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	UJ	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0013	U	0.001	U	0.0012	U	0.00098	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0022	UJ	0.0027	U	0.002	U	0.0024	U	0.002	U	0.0024	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
			Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
			Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0012	U	0.00092	J	0.0013	U	0.00052	J	0.0012	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0059	U	0.0064	U	0.0064	U	0.0066	U	0.0061	U	0.0058	U
Acetone	**0.03**	100	N/A	0.0071	U	0.018		**0.048**		0.022		0.0073	U	0.0096	
Benzene	0.06	3.7	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0012	U	0.0013	UJ	0.0013	UJ	0.0013	UJ	0.0012	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Bromoform	NS	NS	N/A	0.0012	U	0.0013	UJ	0.0013	UJ	0.0013	UJ	0.0012	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0024	U	0.0026	U	0.0026	U	0.0026	U	0.0024	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chloroethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chloroform	0.37	24	0.37	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Chloromethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0012	UJ	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0059	U	0.0064	U	0.0064	U	0.0066	U	0.0061	U	0.0058	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0059	U	0.0024	J	0.0064		0.0032	J	0.0061	U	0.0058	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0059	U	0.0064	U	0.0064	U	0.0066	U	0.0061	U	0.0058	U
Methylcyclohexane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0024	U	0.0026	U	0.0026	U	0.0026	U	0.0024	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Styrene	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0012	U	0.0013	U	0.0013	U	0.00061	J	0.0012	U	0.00051	J
Toluene	0.7	100	N/A	0.0012	U	0.0012	J	0.00052	J	0.00072	J	0.0012	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0012	U	0.0013	U	0.0013	U	0.0013	U	0.0012	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0012	U	0.0013	UJ	0.0013	UJ	0.0013	UJ	0.0012	UJ	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0024	U	0.0007	J	0.0026	U	0.00045	J	0.0024	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
			Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1,2-Trichloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1-Dichloroethane	0.27	47	0.27	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0013	UJ
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,2-Dichloropropane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
2-Hexanone	NS	NS	N/A	0.0064	U	0.0065	U	0.0057	U	0.0056	U	0.0053	U	0.0064	U
Acetone	**0.03**	100	N/A	0.021		0.0078	U	0.0068	U	0.0068	U	0.0064	U	0.0077	U
Benzene	0.06	3.7	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromochloromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromodichloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromoform	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Bromomethane	NS	NS	N/A	0.0026	U	0.0026	U	0.0023	U	0.0023	U	0.0021	U	0.0026	U
Carbon Disulfide	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chlorobenzene	4.5	100	4.5	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chloroethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chloroform	0.37	24	0.37	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Chloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Cyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Dibromochloromethane	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Dichlorodifluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Ethylbenzene	1	76	N/A	0.006		0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
M,P-Xylenes	NS	NS	N/A	0.034		0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Methyl Acetate	NS	NS	N/A	0.0064	U	0.0065	U	0.0057	U	0.0056	U	0.0053	U	0.0064	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0064	UJ	0.0065	UJ	0.0057	UJ	0.0056	UJ	0.0053	UJ	0.0064	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0064	U	0.0065	U	0.0057	U	0.0056	U	0.0053	U	0.0064	U
Methylcyclohexane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Methylene Chloride	0.05	81	0.05	0.0026	U	0.0026	U	0.0023	U	0.0023	U	0.0021	U	0.0026	U
N-Butylbenzene	18	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
N-Propylbenzene	5	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0098		0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Sec-Butylbenzene	25	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Styrene	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
T-Butylbenzene	11	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013	UJ	0.0013	UJ	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Toluene	0.7	100	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Trichlorofluoromethane	NS	NS	N/A	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Vinyl Chloride	0.03	0.48	0.03	0.0013	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Xylenes, Total	0.26	100	N/A	0.044		0.0026	U	0.0023	U	0.0023	U	0.0021	U	0.0026	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
			Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	UJ	0.0012	UJ	0.0012	UJ	0.0013	UJ	0.0018	UJ	0.0014	UJ
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
2-Hexanone	NS	NS	N/A	0.0055	U	0.0061	U	0.0061	U	0.0065	U	0.0091	U	0.0068	U
Acetone	**0.03**	100	N/A	0.0066	U	0.0077		0.0073	U	0.0078	U	0.011	U	0.011	
Benzene	0.06	3.7	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromoform	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Bromomethane	NS	NS	N/A	0.0022	U	0.0025	U	0.0024	U	0.0026	U	0.0037	U	0.0027	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chloroform	0.37	24	0.37	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Chloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0017	
Methyl Acetate	NS	NS	N/A	0.0055	U	0.0061	U	0.0061	U	0.0065	U	0.0091	U	0.0068	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0055	UJ	0.0061	UJ	0.0061	UJ	0.0065	UJ	0.0091	UJ	0.0068	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0055	U	0.0061	U	0.0061	U	0.0065	U	0.0091	U	0.0068	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0025	U	0.0024	U	0.0026	U	0.0037	U	0.0027	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Styrene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0011	U	0.0012	U	0.0012	U	0.00042	J	0.0018	U	0.0014	U
Toluene	0.7	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0018	U	0.0014	U
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0025	U	0.0024	U	0.0026	U	0.0037	U	0.0022	J

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
			Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0062	U	0.006	U	0.0055	U	0.0056	U	0.0058	U
Acetone	**0.03**	100	N/A	0.011		0.012		0.0072	U	0.011	J	0.0067	U	0.0086	
Benzene	0.06	3.7	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromoform	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Ethylbenzene	1	76	N/A	0.00077	J	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0041		0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0062	U	0.006	U	0.0055	U	0.0056	U	0.0058	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	UJ	0.0062	UJ	0.006	UJ	0.0055	UJ	0.0056	UJ	0.0058	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0062	U	0.006	U	0.0055	U	0.0056	U	0.0058	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0012		0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Styrene	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0011	UJ	0.00073	J	0.00067	J	0.00051	JK	0.00096	JK	0.0017	J
Toluene	0.7	100	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0012	U	0.0012	U	0.0011	U	0.0011	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0053		0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
			Lab Sample ID	460-349775-22		460-349775-23		460-349775-24		460-349846-6		460-349846-7		460-349846-8	
			Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0011	UJ	0.001	UJ	0.0011	U	0.00097	U	0.001	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	UJ	0.00097	U	0.001	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
2-Hexanone	NS	NS	N/A	0.0054	U	0.0055	U	0.005	U	0.0056	U	0.0048	U	0.0051	U
Acetone	**0.03**	100	N/A	0.0065	U	0.0067	U	0.006	U	0.0067		0.0058	U	0.0061	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	UJ	0.00097	U	0.001	U
Bromoform	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Bromomethane	NS	NS	N/A	0.0022	U	0.0022	U	0.002	U	0.0022	U	0.0019	U	0.002	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chloroform	0.37	24	0.37	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Chloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Methyl Acetate	NS	NS	N/A	0.0054	U	0.0055	U	0.005	U	0.0056	U	0.0048	U	0.0051	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0054	UJ	0.0055	UJ	0.005	UJ	0.0056	U	0.0048	U	0.0051	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0054	U	0.0055	U	0.005	U	0.0056	U	0.0048	U	0.0051	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0022	U	0.002	U	0.0022	U	0.0019	U	0.002	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Styrene	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0099	J	0.0011	U	0.001	U	0.0019		0.0011		0.00056	J
Toluene	0.7	100	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.00097	U	0.001	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.0011	UJ	0.001	UJ	0.0011	U	0.00097	U	0.001	U
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0022	U	0.002	U	0.0022	U	0.0019	U	0.002	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428		RI-SB-13_0-0.17_20260428	
			Lab Sample ID	460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13		460-349846-14	
			Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
			Dilution Factor	50		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Acetone	**0.03**	100	N/A	0.58	U	0.022		0.0066	U	0.0058	U	0.007	U	0.0071	U
Benzene	0.06	3.7	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromoform	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Bromomethane	NS	NS	N/A	0.12	U	0.0022	U	0.0022	U	0.0019	U	0.0023	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.12	UJ	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chloroethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chloroform	0.37	24	0.37	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Chloromethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Ethylbenzene	1	76	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.58	U	0.0055	U	0.0055	U	0.0048	U	0.0058	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.12	U	0.0022	U	0.0022	U	0.0019	U	0.0023	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Styrene	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	**3.8**		0.0052		0.0011	U	0.00097	U	0.0012	U	0.0012	U
Toluene	0.7	100	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.12	U	0.0011	U	0.0011	U	0.00097	U	0.0012	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.23	U	0.0022	U	0.0022	U	0.0019	U	0.0023	U	0.0024	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
			Lab Sample ID	460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7		460-349933-8	
			Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Acetone	**0.03**	100	N/A	0.0074		0.0053	U	0.0054	U	0.015		0.0058	U	0.007	U
Benzene	0.06	3.7	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromoform	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0018	U	0.0018	U	0.0023	U	0.0019	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	UJ	0.00089	UJ	0.0009	UJ	0.0011	U	0.00096	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.00055	J	0.00096	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0044	U	0.0045	U	0.0056	U	0.0048	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0018	U	0.0018	U	0.0023	U	0.0019	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
N-Propylbenzene	5	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
Styrene	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	UJ	0.00096	UJ	0.0012	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0041		0.00089	U	0.0009	U	0.00039	J	0.0017		0.00053	J
Toluene	0.7	100	N/A	0.0011	U	0.00089	U	0.0009	U	0.00055	J	0.00096	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.00089	U	0.0009	U	0.0011	U	0.00096	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0021	U	0.0018	U	0.0018	U	0.00055	J	0.0019	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429		RI-DUP-03_20260429	
			Lab Sample ID	460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13		460-349933-14	
			Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
			Dilution Factor	1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Acetone	**0.03**	100	N/A	0.0072	U	0.022		0.0063	U	0.0062	U	0.007	J	0.0068	U
Benzene	0.06	3.7	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromodichloromethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromoform	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.0024	U	0.0025	U	0.0021	U	0.0021	U	0.002	U	0.0023	U
Carbon Disulfide	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chloroethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Chloromethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.006	U	0.0062	U	0.0053	U	0.0051	U	0.0051	U	0.0057	U
Methylcyclohexane	NS	NS	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
Methylene Chloride	0.05	81	0.05	0.0024	U	0.0025	U	0.0021	U	0.0021	U	0.002	U	0.0023	U
N-Butylbenzene	18	100	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
N-Propylbenzene	5	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
Styrene	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.0012	UJ	0.0012	UJ	0.0011	UJ	0.001	UJ	0.001	UJ	0.0011	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.0013		0.017		0.00056	J	0.0006	J	0.0009	J	0.0014	
Toluene	0.7	100	N/A	0.0012	U	0.00051	J	0.0011	U	0.001	U	0.001	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.0012	U	0.0012	U	0.0011	U	0.001	U	0.001	U	0.0011	U
Xylenes, Total	0.26	100	N/A	0.0024	U	0.0025	U	0.0021	U	0.0021	U	0.002	U	0.0023	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428		RI-SB-TB-01_20260428	
			Lab Sample ID	460-349933-15		460-350137-7		460-350879-3		460-349846-19		460-349846-20	
			Sample Date	4/29/2026		5/1/2026		5/12/2026		4/28/2026		4/28/2026	
			Dilution Factor	1		1		1		1		1	
			Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	NS	NS	NS	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U
1,1-Dichloroethane	0.27	47	0.27	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	0.24	0.98	0.33	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5.9	100	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	1.1	100	N/A	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.02	5.8	0.02	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
1,2-Dichloropropane	NS	NS	NS	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	2.6	38	N/A	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	1.8	24	N/A	1	U	1	U	1	U	1	U	1	U
2-Hexanone	NS	NS	N/A	5	U	5	U	5	U	5	UJ	5	UJ
Acetone	**0.03**	100	N/A	5	U	5	U	5	U	5	U	5	U
Benzene	0.06	3.7	N/A	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Bromochloromethane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	NS	NS	NS	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Bromoform	NS	NS	N/A	1	UJ	1	UJ	1	U	1	U	1	U
Bromomethane	NS	NS	N/A	1	U	1	U	1	U	1	UJ	1	UJ
Carbon Disulfide	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	0.76	7.1	0.76	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	4.5	100	4.5	1	U	1	U	1	U	1	U	1	U
Chloroethane	NS	NS	NS	1	U	1	U	1	U	1	UJ	1	UJ
Chloroform	0.37	24	0.37	1	U	1	U	1	U	1	U	1	U
Chloromethane	NS	NS	NS	1	U	1	U	1	U	1	UJ	1	UJ
Cis-1,2-Dichloroethylene	0.19	41	0.19	1	U	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Cyclohexane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	NS	NS	NS	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U
Dichlorodifluoromethane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	1	76	N/A	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	NS	NS	N/A	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	5	U	5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	0.05	81	0.05	1	U	1	U	1	U	1	U	1	U
N-Butylbenzene	18	100	N/A	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	100	N/A	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	25	100	N/A	1	U	1	U	1	U	1	U	1	U
Styrene	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	11	100	N/A	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	0.1	100	N/A	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Toluene	0.7	100	N/A	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	0.19	100	0.19	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	NS	NS	N/A	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	0.03	0.48	0.03	1	U	1	U	1	U	1	UJ	1	UJ
Xylenes, Total	0.26	100	N/A	2	U	2	U	2	U	2	U	2	U

Table 2A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	RI-TB-03_20260501		RI-TB-04_20260512	
			Lab Sample ID	460-350137-8		460-350879-4	
			Sample Date	5/1/2026		5/12/2026	
			Dilution Factor	1		1	
			Unit	µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	1	U	1	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	1	U	1	U
1,1,2-Trichloroethane	NS	NS	NS	0.58	U	0.58	U
1,1-Dichloroethane	0.27	47	0.27	1	U	1	U
1,1-Dichloroethene	0.24	0.98	0.33	1	U	1	U
1,2,3-Trichlorobenzene	NS	NS	N/A	1	U	1	U
1,2,4-Trichlorobenzene	NS	NS	N/A	1	U	1	U
1,2,4-Trimethylbenzene	5.9	100	N/A	1	U	1	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	1	U	1	U
1,2-Dichlorobenzene	1.1	100	N/A	1	U	1	U
1,2-Dichloroethane	0.02	5.8	0.02	0.3	U	0.3	U
1,2-Dichloropropane	NS	NS	NS	0.92	U	0.92	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	1	U	1	U
1,3-Dichlorobenzene	2.6	38	N/A	1	U	1	U
1,4-Dichlorobenzene	1.8	24	N/A	1	U	1	U
2-Hexanone	NS	NS	N/A	5	U	5	U
Acetone	**0.03**	100	N/A	5	U	5	U
Benzene	0.06	3.7	N/A	0.45	U	0.45	U
Bromochloromethane	NS	NS	N/A	1	U	1	U
Bromodichloromethane	NS	NS	NS	0.98	U	0.98	U
Bromoform	NS	NS	N/A	1	UJ	1	U
Bromomethane	NS	NS	N/A	1	U	1	U
Carbon Disulfide	NS	NS	N/A	1	U	1	U
Carbon Tetrachloride	0.76	7.1	0.76	1	U	1	U
Chlorobenzene	4.5	100	4.5	1	U	1	U
Chloroethane	NS	NS	NS	1	U	1	U
Chloroform	0.37	24	0.37	1	U	1	U
Chloromethane	NS	NS	NS	1	U	1	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	1	U	1	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U
Cyclohexane	NS	NS	N/A	1	U	1	U
Dibromochloromethane	NS	NS	NS	0.78	U	0.78	U
Dichlorodifluoromethane	NS	NS	N/A	1	U	1	U
Ethylbenzene	1	76	N/A	1	U	1	U
Isopropylbenzene (Cumene)	NS	NS	N/A	1	U	1	U
M,P-Xylenes	NS	NS	N/A	0.31	J	1	U
Methyl Acetate	NS	NS	N/A	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	5	U	5	U
Methylcyclohexane	NS	NS	N/A	1	U	1	U
Methylene Chloride	0.05	81	0.05	0.87	J	1	U
N-Butylbenzene	18	100	N/A	1	U	1	U
N-Propylbenzene	5	100	N/A	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	1	U	1	U
Sec-Butylbenzene	25	100	N/A	1	U	1	U
Styrene	NS	NS	N/A	1	U	1	U
T-Butylbenzene	11	100	N/A	1	U	1	U
Tert-Butyl Methyl Ether	0.1	100	N/A	1	U	1	U
Tetrachloroethylene (PCE)	**1.3**	18	1.3	0.4	U	0.4	U
Toluene	0.7	100	N/A	1	U	1	U
Trans-1,2-Dichloroethene	0.19	100	0.19	1	U	1	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.45	U	0.45	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.28	U	0.28	U
Trichlorofluoromethane	NS	NS	N/A	1	U	1	U
Vinyl Chloride	0.03	0.48	0.03	1	U	1	U
Xylenes, Total	0.26	100	N/A	2	U	2	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003	SB-03_31-33_20221003	SB-04_0-2_20221003
			Lab Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2	460-266752-3	460-266752-4	460-266752-5
			Sample Date	10/5/2022	10/5/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
			Dilution Factor	1	1	1	1	1	1	1
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1,2-Trichloroethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1-Dichloroethane	0.27	47	0.27	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,1-Dichloroethene	0.24	0.98	0.33	0.0013 U	0.0013 UJ	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.00055 J	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dichlorobenzene	1.1	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dichloroethane	0.02	5.8	0.02	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,2-Dichloropropane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,3-Dichlorobenzene	2.6	38	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
1,4-Dichlorobenzene	1.8	24	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
2-Hexanone	NS	NS	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Acetone	**0.03**	100	N/A	0.008 U	**0.16**	0.0012 U	0.0071	0.0014 U	0.014	0.0013 U
Benzene	0.06	3.7	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Bromochloromethane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Bromodichloromethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Bromoform	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 UJ	0.00019 UJ	0.00023 UJ	0.0002 UJ	0.00021 U
Bromomethane	NS	NS	N/A	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U	0.00039 U	0.00043 U
Carbon Disulfide	NS	NS	N/A	0.0013 U	0.0013 UJ	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Carbon Tetrachloride	0.76	7.1	0.76	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chlorobenzene	4.5	100	4.5	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chloroethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chloroform	0.37	24	0.37	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Chloromethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Cyclohexane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Dibromochloromethane	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Dichlorodifluoromethane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Ethylbenzene	1	76	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
M,P-Xylenes	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Methyl Acetate	NS	NS	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U	0.00099 U	0.0011 U
Methylcyclohexane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Methylene Chloride	0.05	81	0.05	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U	0.00039 U	0.00043 U
N-Butylbenzene	18	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
N-Propylbenzene	5	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Sec-Butylbenzene	25	100	N/A	0.0013 UJ	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Styrene	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
T-Butylbenzene	11	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.0013 UJ	0.002	0.0013	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Toluene	0.7	100	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Trichlorofluoromethane	NS	NS	N/A	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Vinyl Chloride	0.03	0.48	0.03	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U	0.0002 U	0.00021 U
Xylenes, Total	0.26	100	N/A	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U	0.00039 U	0.00043 U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004		SB-06_0-2_20221004		SB-06_29-31_20221004	
			Lab Sample ID	460-317091-1		460-317091-2		460-266752-6		460-266826-1		460-266826-2		460-266826-3		460-266826-4	
			Sample Date	12/11/2024		12/11/2024		10/3/2022		10/4/2022		10/4/2022		10/4/2022		10/4/2022	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	UJ	0.0016	UJ	0.0014	UJ	0.0012	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.005	U	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Acetone	**0.03**	100	N/A	0.006	U	0.0066	U	0.0012	U	0.0065	U	**0.14**		0.0085	U	0.0073	U
Benzene	0.06	3.7	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromoform	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Bromomethane	NS	NS	N/A	0.002	U	0.0022	U	0.00039	U	0.0022	U	0.0032	U	0.0028	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chloroform	0.37	24	0.37	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Chloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Ethylbenzene	1	76	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.005	U	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.005	U	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.005	UT	0.0055	U	0.00098	U	0.0054	U	0.008	U	0.0071	U	0.0061	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.002	U	0.0022	U	0.00039	U	0.0022	U	0.0032	U	0.0028	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	UJ	0.0016	UJ	0.0014	UJ	0.0012	UJ
N-Propylbenzene	5	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Styrene	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.001	U	0.0016		0.0002	U	0.0097		0.0014	J	0.0014	U	0.00087	J
Toluene	0.7	100	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.0011	U	0.0002	U	0.0011	U	0.0016	U	0.0014	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.002	U	0.0022	U	0.00039	U	0.0022	U	0.0032	U	0.0028	U	0.0024	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213		SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212	
			Lab Sample ID	460-266752-7		460-266752-8		460-317270-1		460-317270-2		460-317270-3		460-317182-1		460-317182-2	
			Sample Date	10/3/2022		10/3/2022		12/13/2024		12/13/2024		12/13/2024		12/12/2024		12/12/2024	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.00022	U	0.0002	U	0.00096	UJ	0.00098	UJ	0.0011	UJ	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	UJ	0.00098	UJ	0.0011	UJ	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
1,2-Dichloropropane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	UJ	0.0055	U	0.005	U	0.0055	U
Acetone	**0.03**	100	N/A	0.01		**0.031**		0.0058	U	0.0059	U	0.0066	U	0.006	U	0.0066	U
Benzene	0.06	3.7	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.00022	U	0.0002	UJ	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromodichloromethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromoform	NS	NS	N/A	0.00022	U	0.0002	UJ	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.00043	U	0.0004	U	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0022	U
Carbon Disulfide	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.00022	U	0.0002	UJ	0.00096	UJ	0.00098	U	0.0011	UJ	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Chloroethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Chloromethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	U	0.0055	U	0.005	U	0.0055	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	U	0.0055	U	0.005	U	0.0055	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0011	U	0.001	U	0.0048	U	0.0049	U	0.0055	U	0.005	U	0.0055	U
Methylcyclohexane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.00043	U	0.0004	U	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0022	U
N-Butylbenzene	18	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
N-Propylbenzene	5	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Styrene	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.00022	UT	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Tert-Butyl Methyl Ether	0.1	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.00024		0.00024		0.0027		0.0088		0.0011	U	0.0036		0.0026	
Toluene	0.7	100	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.00022	U	0.0002	U	0.00096	U	0.00098	U	0.0011	U	0.001	UJ	0.0011	UJ
Xylenes, Total	0.26	100	N/A	0.00043	U	0.0004	U	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0022	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212		SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212	
			Lab Sample ID	460-317182-3		460-317182-4		460-317182-5		460-317182-6		460-317182-7		460-317182-8		460-317182-9	
			Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	UJ	0.0012	UJ
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
2-Hexanone	NS	NS	N/A	0.0056	U	0.0053	U	0.0047	U	0.006	U	0.0069	U	0.0053	U	0.0059	U
Acetone	**0.03**	100	N/A	0.0067	U	0.0064	U	0.018		0.0072	U	0.0083	U	0.0063	U	0.0071	U
Benzene	0.06	3.7	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Bromoform	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	UJ	0.0012	UJ
Bromomethane	NS	NS	N/A	0.0022	U	0.0021	U	0.0019	U	0.0024	U	0.0028	U	0.0021	U	0.0024	U
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.0011	U	0.00075	J	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chloroethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chloroform	0.37	24	0.37	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Chloromethane	NS	NS	NS	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Ethylbenzene	1	76	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Methyl Acetate	NS	NS	N/A	0.0056	U	0.0053	U	0.0047	U	0.006	U	0.0069	U	0.0053	U	0.0059	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0056	U	0.0053	U	0.0065		0.006	U	0.0069	U	0.0053	U	0.0059	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0056	U	0.0053	U	0.0047	U	0.006	U	0.0069	U	0.0053	U	0.0059	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Methylene Chloride	0.05	81	0.05	0.0022	U	0.0021	U	0.0011	J	0.0024	U	0.0028	U	0.0021	U	0.0024	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Sec-Butylbenzene	25	100	N/A	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Styrene	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
T-Butylbenzene	11	100	N/A	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	UJ
Tetrachloroethylene (PCE)	1.3	18	1.3	0.001	J	0.00077	J	0.0059		0.00076	J	0.0043		0.087		0.0023	
Toluene	0.7	100	N/A	0.0011	U	0.00035	J	0.00023	J	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	UJ	0.0012	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.00038	J	0.0012	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.0011	U	0.00094	U	0.0012	U	0.0014	U	0.0011	U	0.0012	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	UJ	0.0011	UJ	0.00094	UJ	0.0012	UJ	0.0014	UJ	0.0011	U	0.0012	U
Xylenes, Total	0.26	100	N/A	0.0022	U	0.0021	U	0.0019	U	0.0024	U	0.0028	U	0.0021	U	0.0024	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-12_0-2_20241211		SB-12_8-10_20241211		SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
			Lab Sample ID	460-317091-3		460-317091-4		460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
			Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
			Dilution Factor	1		1		1		1		1		1		1	
			Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1,2-Trichloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethane	0.27	47	0.27	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,1-Dichloroethene	0.24	0.98	0.33	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichloroethane	0.02	5.8	0.02	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,2-Dichloropropane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,3-Dichlorobenzene	2.6	38	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
1,4-Dichlorobenzene	1.8	24	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
2-Hexanone	NS	NS	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Acetone	**0.03**	100	N/A	0.006	U	0.0063	U	0.0066	U	0.0063	U	0.0066	U	0.006	U	0.0066	U
Benzene	0.06	3.7	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromochloromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromodichloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromoform	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Bromomethane	NS	NS	N/A	0.002	U	0.0021	U	0.0022	U	0.0021	U	0.0022	U	0.002	U	0.0022	U
Carbon Disulfide	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Carbon Tetrachloride	0.76	7.1	0.76	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chlorobenzene	4.5	100	4.5	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chloroethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chloroform	0.37	24	0.37	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Chloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Cyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Dibromochloromethane	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Dichlorodifluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Ethylbenzene	1	76	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
M,P-Xylenes	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Methyl Acetate	NS	NS	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.005	U	0.0053	U	0.0055	U	0.0053	U	0.0055	U	0.005	U	0.0055	U
Methylcyclohexane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Methylene Chloride	0.05	81	0.05	0.002	U	0.0021	U	0.0022	U	0.0021	U	0.0022	U	0.002	U	0.0022	U
N-Butylbenzene	18	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
N-Propylbenzene	5	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Sec-Butylbenzene	25	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Styrene	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
T-Butylbenzene	11	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.0057		0.00051	J	0.00073	J	0.0011	U	0.0011	U	0.002		0.0079	
Toluene	0.7	100	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Trichlorofluoromethane	NS	NS	N/A	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Vinyl Chloride	0.03	0.48	0.03	0.001	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.0011	U
Xylenes, Total	0.26	100	N/A	0.002	U	0.0021	U	0.0022	U	0.0021	U	0.0022	U	0.002	U	0.0022	U

Table 2B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Volatile Organic Compounds (VOCs)

			AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211		TB-01_20241211	
			Lab Sample ID	460-317091-6		460-317091-7		460-317091-12	
			Sample Date	12/11/2024		12/11/2024		12/11/2024	
			Dilution Factor	1		1		1	
			Unit	mg/kg		mg/kg		µg/L	
Compound	**UUSCO**	**RRSCO**	**PGWSCO**	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.68	0.0011	U	0.00097	U	1	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,1,2-Trichloroethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
1,1-Dichloroethane	0.27	47	0.27	0.0011	U	0.00097	U	1	U
1,1-Dichloroethene	0.24	0.98	0.33	0.0011	U	0.00097	U	1	U
1,2,3-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2,4-Trichlorobenzene	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2,4-Trimethylbenzene	5.9	100	N/A	0.0011	U	0.00097	U	1	U
1,2-Dibromo-3-Chloropropane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
1,2-Dichlorobenzene	1.1	100	N/A	0.0011	U	0.00097	U	1	U
1,2-Dichloroethane	0.02	5.8	0.02	0.0011	U	0.00097	U	1	U
1,2-Dichloropropane	NS	NS	NS	0.0011	U	0.00097	U	1	U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	N/A	0.0011	U	0.00097	U	1	U
1,3-Dichlorobenzene	2.6	38	N/A	0.0011	U	0.00097	U	1	U
1,4-Dichlorobenzene	1.8	24	N/A	0.0011	U	0.00097	U	1	U
2-Hexanone	NS	NS	N/A	0.0053	U	0.0049	U	5	U
Acetone	**0.03**	100	N/A	0.0063	U	0.0058	U	5	U
Benzene	0.06	3.7	N/A	0.0011	U	0.00097	U	1	U
Bromochloromethane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Bromodichloromethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Bromoform	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Bromomethane	NS	NS	N/A	0.0021	U	0.0019	U	1	UJ
Carbon Disulfide	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Carbon Tetrachloride	0.76	7.1	0.76	0.0011	U	0.00097	U	1	U
Chlorobenzene	4.5	100	4.5	0.0011	U	0.00097	U	1	U
Chloroethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Chloroform	0.37	24	0.37	0.0011	U	0.00097	U	1	U
Chloromethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Cis-1,2-Dichloroethylene	0.19	41	0.19	0.0011	U	0.00097	U	1	U
Cis-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00097	U	1	U
Cyclohexane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Dibromochloromethane	NS	NS	NS	0.0011	U	0.00097	U	1	U
Dichlorodifluoromethane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Ethylbenzene	1	76	N/A	0.0011	U	0.00097	U	1	U
Isopropylbenzene (Cumene)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
M,P-Xylenes	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Methyl Acetate	NS	NS	N/A	0.0053	U	0.0049	U	5	U
Methyl Ethyl Ketone (2-Butanone)	0.1	100	N/A	0.0053	U	0.0049	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	N/A	0.0053	U	0.0049	U	5	U
Methylcyclohexane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Methylene Chloride	0.05	81	0.05	0.0021	U	0.0019	U	1	U
N-Butylbenzene	18	100	N/A	0.0011	U	0.00097	U	1	U
N-Propylbenzene	5	100	N/A	0.0011	U	0.00097	U	1	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Sec-Butylbenzene	25	100	N/A	0.0011	U	0.00097	U	1	U
Styrene	NS	NS	N/A	0.0011	U	0.00097	U	1	U
T-Butylbenzene	11	100	N/A	0.0011	U	0.00097	U	1	U
Tert-Butyl Methyl Ether	0.1	100	N/A	0.0011	U	0.00097	U	1	U
Tetrachloroethylene (PCE)	1.3	18	1.3	0.00088	J	0.012		1	U
Toluene	0.7	100	N/A	0.0011	U	0.00097	U	1	U
Trans-1,2-Dichloroethene	0.19	100	0.19	0.0011	U	0.00097	U	1	U
Trans-1,3-Dichloropropene	NS	NS	NS	0.0011	U	0.00097	U	1	U
Trichloroethylene (TCE)	0.47	6.4	0.47	0.0011	U	0.00097	U	1	U
Trichlorofluoromethane	NS	NS	N/A	0.0011	U	0.00097	U	1	U
Vinyl Chloride	0.03	0.48	0.03	0.0011	U	0.00097	U	1	UJ
Xylenes, Total	0.26	100	N/A	0.0021	U	0.0019	U	2	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513		RI-SB-02_0-0.17_20260429	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6		460-349933-17	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	UJ	0.13	UJ	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.27	U	0.28	U	0.29	U	0.27	U	0.27	UJ	0.27	UJ	0.27	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.073	U	0.067	U	0.067	UJ	0.067	UJ	0.069	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.073	U	0.067	U	0.067	UJ	0.067	UJ	0.069	U
2-Chloronaphthalene	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
2-Chlorophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
2-Methylnaphthalene	NS	NS	0.025	J	0.019	J	0.36	U	0.33	U	0.33	U	0.33	U	0.016	J
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.22	U	0.2	U	0.2	UJ	0.2	UJ	0.2	U
2-Nitroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
2-Nitrophenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.22	U	0.2	U	0.2	U	0.2	U	0.2	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.28	U	0.29	U	0.27	U	0.27	UJ	0.27	UJ	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
4-Chloroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4-Nitroaniline	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
4-Nitrophenol	NS	NS	0.67	U	0.7	U	0.73	U	0.67	U	0.67	U	0.67	U	0.69	U
Acenaphthene	20	100	0.016	J	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.011	J
Acenaphthylene	100	100	0.011	J	0.016	J	0.0075	J	0.012	J	0.33	UJ	0.33	UJ	0.02	J
Acetophenone	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Aniline	0.04	8.1	0.035	U	0.037	U	0.038	U	0.035	U	0.035	U	0.035	U	0.036	U
Anthracene	100	100	0.038	J	0.07	J	0.014	J	0.017	J	0.33	UJ	0.33	UJ	0.046	J
Atrazine	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.34	UJ	0.36	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.16		0.28		0.13		0.13		0.033	UJ	0.033	UJ	0.28	
Benzo(a)Pyrene	**1**	1	0.16		0.24		0.12		0.14		0.011	JL	0.033	UJ	0.3	J
Benzo(b)Fluoranthene	**1**	1.4	0.22		0.38		0.17		0.17		0.013	JL	0.033	UJ	0.41	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.13	J	0.29	J	0.093	J	0.23	J	0.33	UJ	0.33	UJ	0.24	J
Benzo(k)Fluoranthene	**0.8**	4.9	0.08		0.15		0.058		0.078		0.0067	JL	0.033	UJ	0.17	J
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.016	J	0.33	U	0.33	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.0071	J	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	U	0.041	J	0.36	U	0.33	U	0.33	U	0.33	U	0.069	J
Caprolactam	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Carbazole	NS	NS	0.027	J	0.025	J	0.36	U	0.33	U	0.33	U	0.33	U	0.022	J
Chrysene	**1**	4.9	0.16	J	0.33	J	0.13	J	0.12	J	0.012	JL	0.33	UJ	0.32	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.026	J	0.049		0.02	J	0.04		0.033	UJ	0.033	UJ	0.063	
Dibenzofuran	2.1	18	0.011	J	0.021	J	0.36	U	0.33	U	0.33	U	0.33	U	0.0063	J
Diethyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Dimethyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Fluoranthene	85	100	0.28	J	0.56		0.18	J	0.16	J	0.017	J	0.33	UJ	0.52	
Fluorene	30	100	0.013	J	0.0068	J	0.36	U	0.33	U	0.33	UJ	0.33	UJ	0.0081	J
Hexachlorobenzene	0.33	0.33	0.033	U	0.034	U	0.036	U	0.033	U	0.033	UJ	0.033	U	0.034	U
Hexachlorobutadiene	NS	NS	0.067	U	0.07	U	0.073	U	0.067	U	0.067	U	0.067	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.12		0.25		0.089		0.16		0.033	UJ	0.033	UJ	0.24	
Isophorone	NS	NS	0.13	U	0.14	U	0.14	U	0.13	U	0.13	UJ	0.13	UJ	0.14	U
Naphthalene	12	100	0.021	J	0.026	J	0.0092	J	0.33	U	0.33	UJ	0.33	UJ	0.013	J
Nitrobenzene	0.08	1.8	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.034	U	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.34	U	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.28	U	0.29	U	0.27	U	0.27	UJ	0.27	UJ	0.27	U
Phenanthrene	**1.1**	4.9	0.16	J	0.33	J	0.048	J	0.018	J	0.011	JL	0.33	UJ	0.2	J
Phenol	0.33	100	0.2	U	0.21	U	0.22	U	0.2	U	0.2	U	0.2	U	0.2	U
Pyrene	64	100	0.24	J	0.54		0.18	J	0.17	J	0.019	J	0.33	U	0.52	

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427		RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427	
		Lab Sample ID	460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25		460-349775-26		460-349775-27	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.37	U	0.36	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.29	U	0.29	U	0.29	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.069	U	0.067	U	0.073	U	0.074	U	0.073	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.069	U	0.067	U	0.073	U	0.074	U	0.073	U
2-Chloronaphthalene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2-Chlorophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2-Methylnaphthalene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.021	J	0.37	U	0.36	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.2	U	0.21	U	0.2	U	0.22	U	0.22	U	0.22	U
2-Nitroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
2-Nitrophenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.2	U	0.21	U	0.2	U	0.22	U	0.22	U	0.22	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.29	U	0.29	U	0.29	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Chloroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	UJ	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Nitroaniline	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
4-Nitrophenol	NS	NS	0.67	U	0.68	U	0.69	U	0.67	U	0.73	U	0.74	U	0.73	U
Acenaphthene	20	100	0.33	U	0.33	U	0.34	U	0.33	U	0.067	J	0.015	J	0.025	J
Acenaphthylene	100	100	0.33	U	0.33	U	0.34	U	0.33	U	0.02	J	0.37	U	0.36	U
Acetophenone	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Aniline	0.04	8.1	0.035	U	0.035	U	0.036	U	0.035	U	0.038	U	0.039	U	0.038	U
Anthracene	100	100	0.33	U	0.33	U	0.34	U	0.33	U	0.22	J	0.041	J	0.066	J
Atrazine	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.33	UJ	0.34	UJ	0.33	UJ	0.36	UJ	0.37	UJ	0.36	UJ
Benzo(a)Anthracene	**1**	1.4	0.055		0.033	U	0.034	U	0.033	U	0.54		0.092		0.17	
Benzo(a)Pyrene	**1**	1	0.046	J	0.033	UJ	0.034	UJ	0.033	UJ	0.42		0.065		0.13	
Benzo(b)Fluoranthene	**1**	1.4	0.062		0.033	U	0.034	U	0.033	U	0.55		0.083		0.17	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.032	J	0.33	U	0.34	U	0.33	U	0.22	J	0.04	J	0.078	J
Benzo(k)Fluoranthene	**0.8**	4.9	0.021	J	0.033	UJ	0.034	UJ	0.033	UJ	0.22		0.031	J	0.071	
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.006	J	0.37	U	0.36	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	UJ	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.37	U	0.36	U
Caprolactam	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Carbazole	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.077	J	0.37	U	0.023	J
Chrysene	**1**	4.9	0.054	J	0.33	U	0.34	U	0.33	U	0.54		0.092	J	0.17	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.0095	J	0.033	U	0.034	U	0.033	U	0.058		0.0097	J	0.021	J
Dibenzofuran	2.1	18	0.33	U	0.33	U	0.34	U	0.33	U	0.046	J	0.0085	J	0.014	J
Diethyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Dimethyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Fluoranthene	85	100	0.087	J	0.33	U	0.34	U	0.33	U	1.2		0.21	J	0.38	
Fluorene	30	100	0.33	U	0.33	U	0.34	U	0.33	U	0.06	J	0.014	J	0.022	J
Hexachlorobenzene	0.33	0.33	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
Hexachlorobutadiene	NS	NS	0.067	U	0.068	U	0.069	U	0.067	U	0.073	U	0.074	U	0.073	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Hexachloroethane	NS	NS	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.031	J	0.033	U	0.034	U	0.033	U	0.25		0.044		0.078	
Isophorone	NS	NS	0.13	U	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U
Naphthalene	12	100	0.33	U	0.33	U	0.34	U	0.33	U	0.027	J	0.37	U	0.0088	J
Nitrobenzene	0.08	1.8	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.033	U	0.034	U	0.033	U	0.036	U	0.037	U	0.036	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.33	U	0.34	U	0.33	U	0.36	U	0.37	U	0.36	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.27	U	0.29	U	0.29	U	0.29	U
Phenanthrene	**1.1**	4.9	0.046	J	0.33	U	0.34	U	0.33	U	1		0.21	J	0.31	J
Phenol	0.33	100	0.2	U	0.2	U	0.21	U	0.2	U	0.22	U	0.22	U	0.22	U
Pyrene	64	100	0.093	J	0.33	U	0.34	U	0.33	U	1		0.19	J	0.32	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-03_15-17_20260427	RI-SB-03_28-30_20260427	RI-SB-04_0-0.17_20260427	RI-SB-04_0-2_20260427	RI-SB-04_2-4_20260427	RI-SB-04_15-17_20260428	RI-SB-04_28-30_20260428
		Lab Sample ID	460-349775-28	460-349775-29	460-349775-18	460-349775-19	460-349775-20	460-349846-22	460-349846-21
		Sample Date	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2,4-Dinitrophenol	NS	NS	0.28 U	0.28 U	0.29 U	0.29 U	0.3 U	0.27 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.071 U	0.071 U	0.073 U	0.072 U	0.075 U	0.067 U	0.067 U
2,6-Dinitrotoluene	NS	NS	0.071 U	0.071 U	0.073 U	0.072 U	0.075 U	0.067 U	0.067 U
2-Chloronaphthalene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Chlorophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Methylnaphthalene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Methylphenol (O-Cresol)	0.33	100	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.2 U	0.2 U
2-Nitroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
2-Nitrophenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
3- And 4- Methylphenol (Total)	NS	NS	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.2 U	0.2 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
3-Nitroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.28 U	0.28 U	0.29 U	0.29 U	0.3 U	0.27 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Chloroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Nitroaniline	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
4-Nitrophenol	NS	NS	0.71 U	0.71 U	0.73 U	0.72 U	0.75 U	0.67 U	0.67 U
Acenaphthene	20	100	0.35 U	0.35 U	0.36 U	0.36 U	0.029 J	0.33 U	0.33 U
Acenaphthylene	100	100	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Acetophenone	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Aniline	0.04	8.1	0.037 U	0.037 U	0.038 U	0.038 U	0.039 U	0.035 U	0.035 U
Anthracene	100	100	0.35 U	0.35 U	0.36 U	0.36 U	0.049 J	0.33 U	0.33 U
Atrazine	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
Benzaldehyde	NS	NS	0.35 UJ	0.35 UJ	0.36 UJ	0.36 UJ	0.37 UJ	0.33 U	0.33 U
Benzo(a)Anthracene	**1**	1.4	0.027 J	0.035 U	0.055	0.036 U	0.18	0.033 U	0.033 U
Benzo(a)Pyrene	**1**	1	0.017 J	0.035 U	0.045	0.036 U	0.15	0.033 U	0.033 U
Benzo(b)Fluoranthene	**1**	1.4	0.025 J	0.035 U	0.057	0.036 U	0.18	0.033 U	0.033 U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.012 J	0.35 U	0.029 J	0.36 U	0.092 J	0.33 U	0.33 U
Benzo(k)Fluoranthene	**0.8**	4.9	0.0066 J	0.035 U	0.026 J	0.036 U	0.071	0.033 U	0.033 U
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Caprolactam	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Carbazole	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.017 J	0.33 U	0.33 U
Chrysene	**1**	4.9	0.022 J	0.35 U	0.05 J	0.36 U	0.19 J	0.33 U	0.33 U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.035 U	0.035 U	0.036 U	0.036 U	0.022 J	0.033 U	0.033 U
Dibenzofuran	2.1	18	0.35 U	0.35 U	0.36 U	0.36 U	0.0081 J	0.33 U	0.33 U
Diethyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Dimethyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Fluoranthene	85	100	0.051 J	0.35 U	0.074 J	0.36 U	0.4	0.33 U	0.33 U
Fluorene	30	100	0.35 U	0.35 U	0.36 U	0.36 U	0.019 J	0.33 U	0.33 U
Hexachlorobenzene	0.33	0.33	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
Hexachlorobutadiene	NS	NS	0.071 U	0.071 U	0.073 U	0.072 U	0.075 U	0.067 U	0.067 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Hexachloroethane	NS	NS	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.035 U	0.035 U	0.034 J	0.036 U	0.088	0.033 U	0.033 U
Isophorone	NS	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U
Naphthalene	12	100	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Nitrobenzene	0.08	1.8	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.035 U	0.036 U	0.036 U	0.037 U	0.033 U	0.033 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.35 U	0.36 U	0.36 U	0.37 U	0.33 U	0.33 U
Pentachlorophenol	0.8	1.3	0.28 U	0.28 U	0.29 U	0.29 U	0.3 U	0.27 U	0.27 U
Phenanthrene	**1.1**	4.9	0.051 J	0.35 U	0.026 J	0.36 U	0.3 J	0.33 U	0.33 U
Phenol	0.33	100	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.2 U	0.2 U
Pyrene	64	100	0.046 J	0.35 U	0.068 J	0.36 U	0.36 J	0.33 U	0.33 U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501		RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429	
		Lab Sample ID	460-350137-1		460-350137-2		460-350137-3		460-350792-1		460-350792-2		460-349933-1		460-349933-2	
		Sample Date	5/1/2026		5/1/2026		5/1/2026		5/11/2026		5/11/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.035	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.14	UJ	0.14	U	0.14	UJ	0.14	U	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	UJ	0.14	U	0.14	UJ	0.14	U	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	UJ	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.28	R	0.27	U	0.28	UJ	0.27	U	0.27	U	0.27	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.071	UJ	0.069	U	0.07	U	0.068	U	0.069	U	0.069	U	0.07	U
2,6-Dinitrotoluene	NS	NS	0.071	UJ	0.069	U	0.07	U	0.068	U	0.069	U	0.069	U	0.07	U
2-Chloronaphthalene	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
2-Chlorophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
2-Methylnaphthalene	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.015	J	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.21	UJ	0.21	U	0.21	UJ	0.2	U	0.2	U	0.21	U	0.21	U
2-Nitroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
2-Nitrophenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.21	UJ	0.21	U	0.21	UJ	0.2	U	0.2	U	0.21	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.28	R	0.27	U	0.28	UJ	0.27	U	0.27	U	0.27	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
4-Chloroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.35	UJ	0.34	U	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U
4-Nitroaniline	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
4-Nitrophenol	NS	NS	0.71	UJ	0.69	U	0.7	UJ	0.68	U	0.69	U	0.69	U	0.7	U
Acenaphthene	20	100	0.022	JL	0.014	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Acenaphthylene	100	100	0.016	JL	0.014	J	0.0047	J	0.34	U	0.34	U	0.0052	J	0.34	U
Acetophenone	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Aniline	0.04	8.1	0.037	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U
Anthracene	100	100	0.065	JL	0.041	J	0.014	J	0.34	U	0.34	U	0.34	U	0.014	J
Atrazine	NS	NS	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.35	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.38	JL	0.17		0.066		0.034	U	0.034	U	0.053		0.079	
Benzo(a)Pyrene	**1**	1	0.37	JL	0.17		0.057		0.034	U	0.034	U	0.051	J	0.076	J
Benzo(b)Fluoranthene	**1**	1.4	0.48	JL	0.22		0.084		0.034	U	0.034	U	0.081		0.11	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.27	JL	0.57		0.048	J	0.34	U	0.34	U	0.031	J	0.053	J
Benzo(k)Fluoranthene	**0.8**	4.9	0.21	JL	0.086		0.029	J	0.034	U	0.034	U	0.027	J	0.034	J
Benzyl Butyl Phthalate	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	UJ	0.34	UJ
Caprolactam	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Carbazole	NS	NS	0.018	JL	0.014	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Chrysene	**1**	4.9	0.4	JL	0.17	J	0.062	J	0.34	U	0.34	U	0.062	J	0.085	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.062	JL	**0.37**		0.0083	J	0.034	U	0.034	U	0.0085	J	0.011	J
Dibenzofuran	2.1	18	0.0096	JL	0.0062	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Diethyl Phthalate	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Dimethyl Phthalate	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.35	U	0.34	U	0.019	J	0.34	U	0.34	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.35	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Fluoranthene	85	100	0.71	JL	0.31	J	0.11	J	0.34	U	0.34	U	0.086	J	0.14	J
Fluorene	30	100	0.016	JL	0.0097	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Hexachlorobenzene	0.33	0.33	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.071	UJ	0.069	U	0.07	U	0.068	U	0.069	U	0.069	U	0.07	U
Hexachlorocyclopentadiene	NS	NS	0.35	UJ	0.34	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.26	JL	0.38		0.041		0.034	U	0.034	U	0.03	J	0.052	
Isophorone	NS	NS	0.14	UJ	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.012	JL	0.0071	J	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Nitrobenzene	0.08	1.8	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.035	UJ	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.35	UJ	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.28	UJ	0.27	U	0.28	UJ	0.27	U	0.27	U	0.27	U	0.28	U
Phenanthrene	**1.1**	4.9	0.32	JL	0.16	J	0.071	J	0.34	U	0.34	U	0.042	J	0.065	J
Phenol	0.33	100	0.21	UJ	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.21	U
Pyrene	64	100	0.64	JL	0.28	J	0.11	J	0.34	U	0.34	U	0.075	J	0.13	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429		RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428	
		Lab Sample ID	460-349933-3		460-349933-4		460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.034	U	0.033	U	0.036	U	0.036	U	0.034	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	UJ	0.29	U	0.29	U	0.28	U	0.27	UJ
2,4-Dinitrotoluene	NS	NS	0.067	U	0.069	U	0.067	UJ	0.073	U	0.073	U	0.07	U	0.069	UJ
2,6-Dinitrotoluene	NS	NS	0.067	U	0.069	U	0.067	UJ	0.073	U	0.073	U	0.07	U	0.069	UJ
2-Chloronaphthalene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
2-Chlorophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
2-Methylnaphthalene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.021	J	0.36	U	0.34	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.2	UJ	0.22	U	0.22	U	0.21	U	0.2	UJ
2-Nitroaniline	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	UJ	0.34	UJ	0.34	UJ
2-Nitrophenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.2	UJ	0.22	U	0.22	U	0.21	U	0.2	UJ
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.14	U	0.13	U	0.15	U	0.15	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.34	U	0.33	U	0.36	U	0.36	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	UJ	0.29	U	0.29	U	0.28	U	0.27	UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
4-Chloroaniline	NS	NS	0.33	U	0.34	U	0.33	U	0.36	U	0.36	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
4-Nitroaniline	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
4-Nitrophenol	NS	NS	0.67	U	0.69	U	0.67	UJ	0.73	UJ	0.73	UJ	0.7	UJ	0.69	UJ
Acenaphthene	20	100	0.33	U	0.34	U	0.33	UJ	0.023	J	0.012	J	0.34	U	0.34	UJ
Acenaphthylene	100	100	0.33	U	0.34	U	0.33	UJ	0.03	J	0.04	J	0.34	U	0.34	UJ
Acetophenone	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Aniline	0.04	8.1	0.035	U	0.036	U	0.035	UJ	0.038	U	0.038	U	0.037	U	0.036	U
Anthracene	100	100	0.33	U	0.34	U	0.33	UJ	0.16	J	0.058	J	0.34	U	0.34	UJ
Atrazine	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.34	UJ	0.33	UJ	0.36	UJ	0.36	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.033	U	0.034	U	0.033	UJ	**1.1**		0.53		0.034	U	0.02	JL
Benzo(a)Pyrene	**1**	1	0.033	UJ	0.034	UJ	0.033	UJ	1		0.54		0.034	U	0.013	JL
Benzo(b)Fluoranthene	**1**	1.4	0.033	U	0.034	U	0.033	UJ	**1.5**		0.67		0.034	U	0.017	JL
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	U	0.34	U	0.33	UJ	0.45		0.37		0.34	U	0.34	UJ
Benzo(k)Fluoranthene	**0.8**	4.9	0.033	UJ	0.034	UJ	0.033	UJ	0.55		0.24		0.034	U	0.0067	JL
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.34	U	0.33	UJ	0.0077	J	0.36	U	0.34	U	0.34	UJ
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	UJ	0.34	UJ	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Caprolactam	NS	NS	0.33	U	0.34	U	0.33	U	0.36	U	0.36	U	0.34	U	0.34	U
Carbazole	NS	NS	0.33	U	0.34	U	0.33	UJ	0.028	J	0.015	J	0.34	U	0.34	UJ
Chrysene	**1**	4.9	0.33	U	0.34	U	0.33	UJ	1		0.57		0.34	U	0.015	JL
Dibenz(a,h)Anthracene	**0.33**	0.33	0.033	U	0.034	U	0.033	UJ	0.12		0.09		0.034	U	0.034	UJ
Dibenzofuran	2.1	18	0.33	U	0.34	U	0.33	UJ	0.022	J	0.006	J	0.34	U	0.34	U
Diethyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Dimethyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	UJ
Fluoranthene	85	100	0.33	U	0.34	U	0.33	UJ	1.6		0.76		0.34	U	0.024	JL
Fluorene	30	100	0.33	U	0.34	U	0.33	UJ	0.016	J	0.011	J	0.34	U	0.34	UJ
Hexachlorobenzene	0.33	0.33	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.067	U	0.069	U	0.067	UJ	0.073	U	0.073	U	0.07	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.033	U	0.034	U	0.033	UJ	0.5		0.37		0.034	U	0.034	UJ
Isophorone	NS	NS	0.13	U	0.14	U	0.13	UJ	0.15	U	0.15	U	0.14	U	0.14	UJ
Naphthalene	12	100	0.33	U	0.34	U	0.33	UJ	0.035	J	0.011	J	0.34	U	0.34	UJ
Nitrobenzene	0.08	1.8	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.034	U	0.033	UJ	0.036	U	0.036	U	0.034	U	0.034	UJ
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.34	U	0.33	UJ	0.36	U	0.36	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	UJ	0.29	U	0.29	U	0.28	U	0.27	U
Phenanthrene	**1.1**	4.9	0.33	U	0.34	U	0.33	UJ	0.58		0.23	J	0.34	U	0.016	JL
Phenol	0.33	100	0.2	U	0.21	U	0.2	UJ	0.22	U	0.22	U	0.21	U	0.2	UJ
Pyrene	64	100	0.33	U	0.34	U	0.33	UJ	1.4		0.91		0.34	U	0.03	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-07_33-35_20260428		RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-5		460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	UJ	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	UJ	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.28	U	0.28	U	0.28	U	0.28	U	0.27	UJ	0.27	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.07	U	0.07	U	0.07	U	0.068	UJ	0.068	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.07	U	0.07	U	0.07	U	0.07	U	0.068	UJ	0.068	U
2-Chloronaphthalene	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2-Chlorophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
2-Methylnaphthalene	NS	NS	0.33	U	0.34	U	0.052	J	0.046	J	0.068	J	0.34	UJ	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	UJ	0.2	U
2-Nitroaniline	NS	NS	0.33	UJ	0.34	UJ	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	UJ
2-Nitrophenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	UJ	0.2	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.28	U	0.28	U	0.28	U	0.28	U	0.27	UJ	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Chloroaniline	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Nitroaniline	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
4-Nitrophenol	NS	NS	0.67	UJ	0.7	UJ	0.7	U	0.7	U	0.7	U	0.68	UJ	0.68	UJ
Acenaphthene	20	100	0.33	U	0.34	U	0.011	J	0.05	J	0.11	J	0.34	UJ	0.34	U
Acenaphthylene	100	100	0.33	U	0.34	U	0.008	J	0.037	J	0.075	J	0.34	UJ	0.34	U
Acetophenone	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Aniline	0.04	8.1	0.035	U	0.037	U	0.036	U	0.037	U	0.037	U	0.036	U	0.036	U
Anthracene	100	100	0.33	U	0.34	U	0.032	J	0.14	J	0.3	J	0.34	UJ	0.34	U
Atrazine	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.34	UJ	0.34	UJ	0.34	UJ	0.35	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.033	U	0.032	J	0.12		0.44		0.84		0.012	JL	0.034	U
Benzo(a)Pyrene	**1**	1	0.033	U	0.024	J	0.1		0.37		0.74		0.034	UJ	0.034	U
Benzo(b)Fluoranthene	**1**	1.4	0.033	U	0.034		0.15		0.47		0.92		0.0078	JL	0.034	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	U	0.019	J	0.064	J	0.25	J	0.5		0.34	U	0.34	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.033	U	0.012	J	0.047		0.16		0.34		0.0085	JL	0.034	U
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.34	U	0.0079	J	0.012	J	0.022	J	0.34	UJ	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	UJ
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.023	J	0.35	U	0.34	UJ	0.34	U
Caprolactam	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	UJ
Carbazole	NS	NS	0.33	U	0.34	U	0.34	U	0.049	J	0.11	J	0.34	UJ	0.34	U
Chrysene	**1**	4.9	0.33	U	0.031	J	0.15	J	0.43		0.88		0.0083	JL	0.34	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.033	U	0.034	U	0.016	J	0.058		0.13		0.034	UJ	0.034	U
Dibenzofuran	2.1	18	0.33	U	0.34	U	0.0098	J	0.053	J	0.12	J	0.34	UJ	0.34	U
Diethyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Dimethyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	UJ	0.34	U
Fluoranthene	85	100	0.33	U	0.057	J	0.23	J	0.92		1.9		0.34	UJ	0.34	U
Fluorene	30	100	0.33	U	0.34	U	0.014	J	0.086	J	0.19	J	0.34	UJ	0.34	U
Hexachlorobenzene	0.33	0.33	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.067	U	0.07	U	0.07	U	0.07	U	0.07	U	0.068	UJ	0.068	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.033	U	0.034	U	0.062		0.24		0.48		0.034	U	0.034	U
Isophorone	NS	NS	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	UJ	0.14	U
Naphthalene	12	100	0.33	U	0.34	U	0.02	J	0.065	J	0.11	J	0.34	UJ	0.34	U
Nitrobenzene	0.08	1.8	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.034	U	0.034	U	0.034	U	0.035	U	0.034	UJ	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.34	U	0.34	U	0.34	U	0.35	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.28	U	0.28	U	0.28	U	0.28	U	0.27	UJ	0.27	U
Phenanthrene	**1.1**	4.9	0.0079	J	0.039	J	0.14	J	0.85		**1.8**		0.34	UJ	0.34	U
Phenol	0.33	100	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	UJ	0.2	U
Pyrene	64	100	0.33	U	0.065	J	0.18	J	0.89		1.9		0.009	JL	0.34	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427		RI-SB-09_12-14_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6		460-349775-7	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2,4,5-Trichlorophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.069	U	0.068	U	0.068	U	0.068	U	0.067	U	0.068	U	0.071	U
2,6-Dinitrotoluene	NS	NS	0.069	U	0.068	U	0.068	U	0.068	U	0.067	U	0.068	U	0.071	U
2-Chloronaphthalene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Chlorophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Methylnaphthalene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U
2-Nitroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
2-Nitrophenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
3-Nitroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Chloro-3-Methylphenol	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Chloroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Methylphenol (P-Cresol)	0.33	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Nitroaniline	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
4-Nitrophenol	NS	NS	0.69	U	0.68	U	0.68	U	0.68	U	0.67	U	0.68	U	0.71	U
Acenaphthene	20	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Acenaphthylene	100	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Acetophenone	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Aniline	0.04	8.1	0.036	U	0.036	U	0.035	U	0.036	U	0.035	U	0.035	U	0.037	U
Anthracene	100	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Atrazine	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
Benzaldehyde	NS	NS	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ	0.33	UJ	0.33	UJ	0.35	UJ
Benzo(a)Anthracene	**1**	1.4	0.024	J	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Benzo(a)Pyrene	**1**	1	0.015	J	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Benzo(b)Fluoranthene	**1**	1.4	0.018	J	0.034	U	0.01	J	0.034	U	0.033	U	0.033	U	0.035	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.0085	J	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Benzyl Butyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Biphenyl (Diphenyl)	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Caprolactam	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Carbazole	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Chrysene	**1**	4.9	0.02	J	0.34	U	0.0077	J	0.34	U	0.33	U	0.33	U	0.35	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Dibenzofuran	2.1	18	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Diethyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Dimethyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Di-N-Butyl Phthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Di-N-Octylphthalate	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Fluoranthene	85	100	0.034	J	0.34	U	0.019	J	0.34	U	0.33	U	0.33	U	0.35	U
Fluorene	30	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Hexachlorobenzene	0.33	0.33	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Hexachlorobutadiene	NS	NS	0.069	U	0.068	U	0.068	U	0.068	U	0.067	U	0.068	U	0.071	U
Hexachlorocyclopentadiene	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Hexachloroethane	NS	NS	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
Isophorone	NS	NS	0.14	U	0.14	U	0.13	U	0.14	U	0.13	U	0.13	U	0.14	U
Naphthalene	12	100	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Nitrobenzene	0.08	1.8	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
N-Nitrosodi-N-Propylamine	NS	NS	0.034	U	0.034	U	0.033	U	0.034	U	0.033	U	0.033	U	0.035	U
N-Nitrosodiphenylamine	NS	NS	0.34	U	0.34	U	0.33	U	0.34	U	0.33	U	0.33	U	0.35	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U
Phenanthrene	**1.1**	4.9	0.029	J	0.34	U	0.012	J	0.34	U	0.33	U	0.33	U	0.35	U
Phenol	0.33	100	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U
Pyrene	64	100	0.035	J	0.34	U	0.016	J	0.34	U	0.33	U	0.33	U	0.35	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427		RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427	
		Lab Sample ID	460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12		460-349775-13		460-349775-14	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2,4-Dinitrophenol	NS	NS	0.29	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.073	U	0.067	U	0.067	U	0.067	U	0.07	U	0.069	U	0.07	U
2,6-Dinitrotoluene	NS	NS	0.073	U	0.067	U	0.067	U	0.067	U	0.07	U	0.069	U	0.07	U
2-Chloronaphthalene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Chlorophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Methylnaphthalene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.22	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	0.21	U
2-Nitroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
2-Nitrophenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.22	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Chloroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Nitroaniline	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
4-Nitrophenol	NS	NS	0.73	U	0.67	U	0.67	U	0.67	U	0.7	U	0.69	U	0.7	U
Acenaphthene	20	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Acenaphthylene	100	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Acetophenone	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Aniline	0.04	8.1	0.038	U	0.035	U	0.035	U	0.035	U	0.036	U	0.036	U	0.036	U
Anthracene	100	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Atrazine	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.36	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.34	UJ	0.34	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzo(a)Pyrene	**1**	1	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzo(b)Fluoranthene	**1**	1.4	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Benzyl Butyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Caprolactam	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Carbazole	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Chrysene	**1**	4.9	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Dibenzofuran	2.1	18	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Diethyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Dimethyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Fluoranthene	85	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Fluorene	30	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Hexachlorobenzene	0.33	0.33	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Hexachlorobutadiene	NS	NS	0.073	U	0.067	U	0.067	U	0.067	U	0.07	U	0.069	U	0.07	U
Hexachlorocyclopentadiene	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Hexachloroethane	NS	NS	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
Isophorone	NS	NS	0.14	U	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Nitrobenzene	0.08	1.8	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.036	U	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U
Pentachlorophenol	0.8	1.3	0.29	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.28	U
Phenanthrene	**1.1**	4.9	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.0099	J	0.34	U
Phenol	0.33	100	0.22	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	0.21	U
Pyrene	64	100	0.36	U	0.33	U	0.33	U	0.33	U	0.34	U	0.0094	J	0.34	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427		RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427	
		Lab Sample ID	460-349775-15		460-349775-16		460-349775-17		460-349775-21		460-349775-22		460-349775-23		460-349775-24	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		5		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.034	U	0.035	U	0.035	U	0.17	U	0.036	U	0.035	U	0.035	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2,4,5-Trichlorophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.14	U	0.14	U	0.7	UJ	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.14	U	0.14	U	0.7	UJ	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.34	U	0.35	UJ	0.35	UJ	1.7	UJ	0.36	U	0.35	U	0.35	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.28	U	0.28	U	1.4	UJ	0.29	U	0.29	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.069	U	0.072	U	0.071	U	0.35	UJ	0.073	U	0.072	U	0.072	U
2,6-Dinitrotoluene	NS	NS	0.069	U	0.072	U	0.071	U	0.35	UJ	0.073	U	0.072	U	0.072	U
2-Chloronaphthalene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2-Chlorophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2-Methylnaphthalene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.21	U	0.21	U	1.1	UJ	0.22	U	0.21	U	0.21	U
2-Nitroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
2-Nitrophenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.21	U	0.21	U	1.1	UJ	0.22	U	0.21	U	0.21	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.14	U	0.14	U	0.7	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.28	U	0.28	U	1.4	UJ	0.29	U	0.29	U	0.28	U
4-Bromophenyl Phenyl Ether	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Chloro-3-Methylphenol	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Chloroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Methylphenol (P-Cresol)	0.33	100	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Nitroaniline	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
4-Nitrophenol	NS	NS	0.69	U	0.72	U	0.71	U	3.5	UJ	0.73	U	0.72	U	0.72	U
Acenaphthene	20	100	0.34	U	0.35	U	0.35	U	0.42	JL	0.06	J	0.35	U	0.35	U
Acenaphthylene	100	100	0.34	U	0.35	U	0.35	U	0.53	JL	0.044	J	0.35	U	0.35	U
Acetophenone	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Aniline	0.04	8.1	0.036	U	0.037	U	0.037	U	0.18	U	0.038	U	0.038	U	0.037	U
Anthracene	100	100	0.34	U	0.35	U	0.35	U	1.5	JL	0.16	J	0.35	U	0.35	U
Atrazine	NS	NS	0.14	U	0.14	U	0.14	U	0.7	U	0.14	UJ	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.34	UJ	0.35	UJ	0.35	UJ	1.7	UJ	0.36	UJ	0.35	UJ	0.35	UJ
Benzo(a)Anthracene	**1**	1.4	0.034	U	0.035	U	0.035	U	**5.2**		0.61		0.035	U	0.035	U
Benzo(a)Pyrene	**1**	1	0.034	U	0.035	U	0.035	U	**4.9**		0.53		0.035	U	0.035	U
Benzo(b)Fluoranthene	**1**	1.4	0.034	U	0.035	U	0.035	U	**6.9**		0.68		0.035	U	0.035	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.34	U	0.35	U	0.35	U	**2.6**		0.3	J	0.35	U	0.35	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.034	U	0.035	U	0.035	U	**2.4**		0.23		0.035	U	0.035	U
Benzyl Butyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Biphenyl (Diphenyl)	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Caprolactam	NS	NS	0.34	U	0.35	U	0.35	U	1.7	U	0.36	U	0.35	U	0.35	U
Carbazole	NS	NS	0.34	U	0.35	U	0.35	U	0.69	JL	0.068	J	0.35	U	0.35	U
Chrysene	**1**	4.9	0.34	U	0.35	U	0.35	U	**5.1**		0.68		0.35	U	0.35	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.034	U	0.035	U	0.035	U	**0.64**	**JL**	0.077		0.035	U	0.035	U
Dibenzofuran	2.1	18	0.34	U	0.35	U	0.35	U	0.21	JL	0.021	J	0.35	U	0.35	U
Diethyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Dimethyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Di-N-Butyl Phthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Di-N-Octylphthalate	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Fluoranthene	85	100	0.34	U	0.35	U	0.35	U	12		1.3		0.35	U	0.35	U
Fluorene	30	100	0.34	U	0.35	U	0.35	U	0.4	JL	0.054	J	0.35	U	0.35	U
Hexachlorobenzene	0.33	0.33	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
Hexachlorobutadiene	NS	NS	0.069	U	0.072	U	0.071	U	0.35	U	0.073	U	0.072	U	0.072	U
Hexachlorocyclopentadiene	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Hexachloroethane	NS	NS	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	U	0.035	U	0.035	U	**2.9**		0.34		0.035	U	0.035	U
Isophorone	NS	NS	0.14	U	0.14	U	0.14	U	0.7	UJ	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.34	U	0.35	U	0.35	U	0.11	JL	0.011	J	0.35	U	0.35	U
Nitrobenzene	0.08	1.8	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
N-Nitrosodi-N-Propylamine	NS	NS	0.034	U	0.035	U	0.035	U	0.17	UJ	0.036	U	0.035	U	0.035	U
N-Nitrosodiphenylamine	NS	NS	0.34	U	0.35	U	0.35	U	1.7	UJ	0.36	U	0.35	U	0.35	U
Pentachlorophenol	0.8	1.3	0.27	U	0.28	U	0.28	U	1.4	U	0.29	U	0.29	U	0.28	U
Phenanthrene	**1.1**	4.9	0.34	U	0.35	U	0.35	U	**6.6**		0.99		0.35	U	0.35	U
Phenol	0.33	100	0.2	U	0.21	U	0.21	U	1.1	UJ	0.22	U	0.21	U	0.21	U
Pyrene	64	100	0.34	U	0.35	U	0.35	U	8.9		1.2		0.35	U	0.35	U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-11_0-0.17_20260428	RI-SB-11_0-2_20260428	RI-SB-11_2-4_20260428	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428	RI-SB-12_4-6_20260428
		Lab Sample ID	460-349846-6	460-349846-7	460-349846-8	460-349846-9		460-349846-10	460-349846-11
		Sample Date	4/28/2026	4/28/2026	4/28/2026	4/28/2026		4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	5	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
2,4-Dichlorophenol	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
2,4-Dimethylphenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2,4-Dinitrophenol	NS	NS	0.27 U	0.27 U	0.27 U	0.28 U	NR	0.28 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.068 U	0.068 U	0.069 U	0.071 U	NR	0.071 U	0.068 U
2,6-Dinitrotoluene	NS	NS	0.068 U	0.068 U	0.069 U	0.071 U	NR	0.071 U	0.068 U
2-Chloronaphthalene	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2-Chlorophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
2-Methylnaphthalene	NS	NS	0.013 J	0.34 U	0.34 U	0.084 J	NR	0.35 U	0.34 U
2-Methylphenol (O-Cresol)	0.33	100	0.2 U	0.2 U	0.21 U	0.21 U	NR	0.21 U	0.2 U
2-Nitroaniline	NS	NS	0.33 UJ	0.34 UJ	0.34 UJ	0.35 UJ	NR	0.35 UJ	0.34 UJ
2-Nitrophenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.2 U	0.2 U	0.21 U	0.21 U	NR	0.21 U	0.2 U
3,3'-Dichlorobenzidine	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
3-Nitroaniline	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27 U	0.27 U	0.27 U	0.28 U	NR	0.28 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.33 U	0.34 U	0.34 UJ	0.35 U	NR	0.35 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Chloroaniline	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Nitroaniline	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
4-Nitrophenol	NS	NS	0.68 UJ	0.68 UJ	0.69 U	0.71 UJ	NR	0.71 UJ	0.68 UJ
Acenaphthene	20	100	0.048 J	0.34 U	0.34 U	0.55	NR	0.35 U	0.34 U
Acenaphthylene	100	100	0.018 J	0.01 J	0.34 U	0.35	NR	0.35 U	0.34 U
Acetophenone	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Aniline	0.04	8.1	0.035 U	0.036 U	0.036 U	0.037 U	NR	0.037 U	0.036 U
Anthracene	100	100	0.13 J	0.02 J	0.34 U	1.5	NR	0.017 J	0.34 U
Atrazine	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
Benzaldehyde	NS	NS	0.33 UJ	0.34 UJ	0.34 UJ	0.35 UJ	NR	0.35 UJ	0.34 UJ
Benzo(a)Anthracene	**1**	1.4	0.48	0.16	0.012 J	**5.1**	NR	0.084	0.034 U
Benzo(a)Pyrene	**1**	1	0.45	0.17	0.007 J	**4.4**	NR	0.075	0.034 U
Benzo(b)Fluoranthene	**1**	1.4	0.59	0.22	0.0098 J	**5.7**	NR	0.11	0.034 U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	0.14 J	0.34 U	**2.6**	NR	0.051 J	0.34 U
Benzo(k)Fluoranthene	**0.8**	4.9	0.21	0.081	0.034 U	**2**	NR	0.042	0.034 U
Benzyl Butyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.33 U	0.34 U	0.34 U	0.026 J	NR	0.35 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.14 J	NR	0.35 U	0.34 U
Caprolactam	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Carbazole	NS	NS	0.06 J	0.34 U	0.34 U	0.54	NR	0.35 U	0.34 U
Chrysene	**1**	4.9	0.5	0.15 J	0.0072 J	**5.3**	NR	0.085 J	0.34 U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.081	0.031 J	0.034 U	**0.76**	NR	0.011 J	0.034 U
Dibenzofuran	2.1	18	0.026 J	0.34 U	0.34 U	0.21 J	NR	0.35 U	0.34 U
Diethyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Dimethyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Di-N-Octylphthalate	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Fluoranthene	85	100	0.95	0.26 J	0.013 J	NR	10 D	0.16 J	0.34 U
Fluorene	30	100	0.04 J	0.34 U	0.34 U	0.45	NR	0.35 U	0.34 U
Hexachlorobenzene	0.33	0.33	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
Hexachlorobutadiene	NS	NS	0.068 U	0.068 U	0.069 U	0.071 U	NR	0.071 U	0.068 U
Hexachlorocyclopentadiene	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Hexachloroethane	NS	NS	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.34	0.14	0.034 U	**3**	NR	0.051	0.034 U
Isophorone	NS	NS	0.13 U	0.14 U	0.14 U	0.14 U	NR	0.14 U	0.14 U
Naphthalene	12	100	0.014 J	0.34 U	0.34 U	0.13 J	NR	0.35 U	0.34 U
Nitrobenzene	0.08	1.8	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.033 U	0.034 U	0.034 U	0.035 U	NR	0.035 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.33 U	0.34 U	0.34 U	0.35 U	NR	0.35 U	0.34 U
Pentachlorophenol	0.8	1.3	0.27 U	0.27 U	0.27 U	0.28 U	NR	0.28 U	0.27 U
Phenanthrene	**1.1**	4.9	0.7	0.093 J	0.0074 J	**6.5**	NR	0.082 J	0.34 U
Phenol	0.33	100	0.2 U	0.2 U	0.21 U	0.21 U	NR	0.21 U	0.2 U
Pyrene	64	100	0.98	0.28 J	0.014 J	NR	9.3 D	0.16 J	0.34 U

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-12_6-8_20260428	RI-SB-12_8-10_20260428	RI-SB-13_0-0.17_20260428	RI-SB-13_0-2_20260428	RI-SB-13_2-4_20260428	RI-SB-13_4-6_20260428	RI-SB-14_0-0.17_20260429
		Lab Sample ID	460-349846-12	460-349846-13	460-349846-14	460-349846-15	460-349846-16	460-349846-17	460-349933-6
		Sample Date	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/29/2026
		Dilution Factor	1	1	1	1	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2,4,5-Trichlorophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 R
2,4-Dichlorophenol	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 R
2,4-Dimethylphenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 R
2,4-Dinitrotoluene	NS	NS	0.072 U	0.074 U	0.067 U	0.067 U	0.067 U	0.067 U	0.068 U
2,6-Dinitrotoluene	NS	NS	0.072 U	0.074 U	0.067 U	0.067 U	0.067 U	0.067 U	0.068 U
2-Chloronaphthalene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
2-Chlorophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
2-Methylnaphthalene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.025 J	0.33 U	0.018 J
2-Methylphenol (O-Cresol)	0.33	100	0.22 U	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 R
2-Nitroaniline	NS	NS	0.36 UJ	0.36 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.34 U
2-Nitrophenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
3- And 4- Methylphenol (Total)	NS	NS	0.22 U	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 R
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U
3-Nitroaniline	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 R
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
4-Chloroaniline	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 R
4-Nitroaniline	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
4-Nitrophenol	NS	NS	0.72 UJ	0.74 UJ	0.67 UJ	0.67 UJ	0.67 UJ	0.67 UJ	0.68 R
Acenaphthene	20	100	0.36 U	0.36 U	0.016 J	0.33 U	0.048 J	0.33 U	0.34 U
Acenaphthylene	100	100	0.36 U	0.36 U	0.33 U	0.33 U	0.01 J	0.33 U	0.01 J
Acetophenone	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aniline	0.04	8.1	0.038 U	0.039 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
Anthracene	100	100	0.36 U	0.36 U	0.026 J	0.33 U	0.15 J	0.33 U	0.029 J
Atrazine	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U
Benzaldehyde	NS	NS	0.36 UJ	0.36 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.33 UJ	0.34 UJ
Benzo(a)Anthracene	**1**	1.4	0.0078 J	0.036 U	0.084	0.029 J	0.29	0.033 U	0.17
Benzo(a)Pyrene	**1**	1	0.036 U	0.036 U	0.074	0.028 J	0.22	0.033 U	0.14 J
Benzo(b)Fluoranthene	**1**	1.4	0.036 U	0.036 U	0.1	0.039	0.29	0.033 U	0.25
Benzo(g,h,i)Perylene	**0.64**	4.9	0.36 U	0.36 U	0.041 J	0.019 J	0.087 J	0.33 U	0.076 J
Benzo(k)Fluoranthene	**0.8**	4.9	0.036 U	0.036 U	0.036	0.013 J	0.11	0.033 U	0.075 J
Benzyl Butyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.005 J	0.33 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.033 J
Caprolactam	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Carbazole	NS	NS	0.36 U	0.36 U	0.015 J	0.33 U	0.067 J	0.33 U	0.014 J
Chrysene	**1**	4.9	0.36 U	0.36 U	0.086 J	0.041 J	0.27 J	0.33 U	0.2 J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.036 U	0.036 U	0.012 J	0.033 U	0.027 J	0.033 U	0.015 J
Dibenzofuran	2.1	18	0.36 U	0.36 U	0.0066 J	0.33 U	0.043 J	0.33 U	0.015 J
Diethyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Dimethyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Di-N-Octylphthalate	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Fluoranthene	85	100	0.36 U	0.36 U	0.16 J	0.05 J	0.65	0.33 U	0.32 J
Fluorene	30	100	0.36 U	0.36 U	0.013 J	0.33 U	0.046 J	0.33 U	0.34 U
Hexachlorobenzene	0.33	0.33	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
Hexachlorobutadiene	NS	NS	0.072 U	0.074 U	0.067 U	0.067 U	0.067 U	0.067 U	0.068 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Hexachloroethane	NS	NS	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.036 U	0.036 U	0.049	0.033 U	0.1	0.033 U	0.074
Isophorone	NS	NS	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U
Naphthalene	12	100	0.36 U	0.36 U	0.0077 J	0.33 U	0.031 J	0.33 U	0.019 J
Nitrobenzene	0.08	1.8	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	0.036 U	0.033 U	0.033 U	0.033 U	0.033 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	0.36 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Pentachlorophenol	0.8	1.3	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 R
Phenanthrene	**1.1**	4.9	0.36 U	0.36 U	0.12 J	0.034 J	0.73	0.0082 J	0.13 J
Phenol	0.33	100	0.22 U	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pyrene	64	100	0.36 U	0.36 U	0.14 J	0.046 J	0.57	0.33 U	0.32 J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429		RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429	
		Lab Sample ID	460-349933-7		460-349933-8		460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.33	UJ	0.33	UJ	0.33	UJ	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.27	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.068	U	0.067	U	0.067	U	0.07	U	0.068	U	0.068	U	0.068	U
2,6-Dinitrotoluene	NS	NS	0.068	U	0.067	U	0.067	U	0.07	U	0.068	U	0.068	U	0.068	U
2-Chloronaphthalene	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Chlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Methylnaphthalene	NS	NS	0.032	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
2-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
2-Nitrophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
3-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.27	U	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	UJ	0.34	U	0.34	U	0.33	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Chloroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
4-Nitrophenol	NS	NS	0.68	U	0.67	U	0.67	U	0.7	U	0.68	U	0.68	U	0.68	U
Acenaphthene	20	100	0.018	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Acenaphthylene	100	100	0.018	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Acetophenone	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Aniline	0.04	8.1	0.035	U	0.035	U	0.035	U	0.036	U	0.036	U	0.035	U	0.036	U
Anthracene	100	100	0.059	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Atrazine	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
Benzaldehyde	NS	NS	0.33	UJ	0.33	UJ	0.33	U	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.31		0.033	U	0.033	U	0.068		0.034	U	0.03	J	0.013	J
Benzo(a)Pyrene	**1**	1	0.3	J	0.033	UJ	0.033	UJ	0.067	J	0.034	UJ	0.026	J	0.0069	J
Benzo(b)Fluoranthene	**1**	1.4	0.42		0.033	U	0.033	U	0.095		0.034	U	0.034		0.0099	J
Benzo(g,h,i)Perylene	**0.64**	4.9	0.22	J	0.33	U	0.33	U	0.046	J	0.34	U	0.017	J	0.34	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.16	J	0.033	UJ	0.033	UJ	0.033	J	0.034	UJ	0.013	J	0.034	UJ
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.026	J	0.33	UJ	0.33	UJ	0.34	UJ	0.34	UJ	0.33	UJ	0.34	UJ
Caprolactam	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Carbazole	NS	NS	0.034	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Chrysene	**1**	4.9	0.33		0.33	U	0.33	U	0.069	J	0.34	U	0.027	J	0.008	J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.053		0.033	U	0.033	U	0.013	J	0.034	U	0.033	U	0.034	U
Dibenzofuran	2.1	18	0.017	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Diethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Dimethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Fluoranthene	85	100	0.55		0.33	U	0.33	U	0.1	J	0.34	U	0.041	J	0.34	U
Fluorene	30	100	0.013	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Hexachlorobenzene	0.33	0.33	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
Hexachlorobutadiene	NS	NS	0.068	U	0.067	U	0.067	U	0.07	U	0.068	U	0.068	U	0.068	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Hexachloroethane	NS	NS	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.23		0.033	U	0.033	U	0.045		0.034	U	0.033	U	0.034	U
Isophorone	NS	NS	0.13	U	0.13	U	0.13	U	0.14	U	0.14	U	0.13	U	0.14	U
Naphthalene	12	100	0.024	J	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Nitrobenzene	0.08	1.8	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.033	U	0.033	U	0.034	U	0.034	U	0.033	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.33	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U	0.27	U	0.27	U
Phenanthrene	**1.1**	4.9	0.28	J	0.33	U	0.33	U	0.037	J	0.34	U	0.022	J	0.0076	J
Phenol	0.33	100	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Pyrene	64	100	0.51		0.33	U	0.33	U	0.099	J	0.34	U	0.042	J	0.012	J

Table 3A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	RI-DUP-03_20260429		RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-14		460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	5	U	5	U	5	U	5	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	10	U	10	U	10	U	10	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	3	U	3	U	3	U	3	U
2,4-Dichlorophenol	NS	NS	0.13	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	NS	NS	0.33	UJ	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrophenol	NS	NS	0.27	U	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrotoluene	NS	NS	0.067	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	NS	NS	0.067	U	2	U	2	U	2	U	2	U
2-Chloronaphthalene	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2-Chlorophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	NS	NS	0.33	U	10	U	10	U	10	U	10	U
2-Methylphenol (O-Cresol)	0.33	100	0.2	U	10	U	10	U	10	U	10	U
2-Nitroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
2-Nitrophenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
3- And 4- Methylphenol (Total)	NS	NS	0.2	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	5	U	5	U	5	U	5	U
3-Nitroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	20	U	20	U	20	U	20	U
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	10	U	10	U	10	U	10	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	10	U	10	U	10	U	10	U
4-Chloroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	10	U	10	U	10	U	10	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	10	U	10	U	10	U	10	U
4-Nitroaniline	NS	NS	0.33	U	5	U	5	U	5	U	5	U
4-Nitrophenol	NS	NS	0.67	U	20	U	20	U	20	U	20	U
Acenaphthene	20	100	0.33	U	10	U	10	U	10	U	10	U
Acenaphthylene	100	100	0.33	U	10	U	10	U	10	U	10	U
Acetophenone	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Aniline	0.04	8.1	0.035	U	6	U	6	U	6	U	6	U
Anthracene	100	100	0.33	U	10	U	10	U	10	U	10	U
Atrazine	NS	NS	0.13	U	2	U	2	U	2	U	2	U
Benzaldehyde	NS	NS	0.33	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(a)Anthracene	**1**	1.4	0.033	U	1	U	1	U	1	U	1	U
Benzo(a)Pyrene	**1**	1	0.033	UJ	1	U	1	U	1	U	1	U
Benzo(b)Fluoranthene	**1**	1.4	0.033	U	2	U	2	U	2	U	2	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.33	U	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.033	UJ	1	U	1	U	1	U	1	U
Benzyl Butyl Phthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	1	U	1	U	1	U	1	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	UJ	2	U	2	U	2	UJ	2	U
Caprolactam	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Carbazole	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Chrysene	**1**	4.9	0.33	U	2	U	2	U	2	U	2	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.033	U	1	U	1	U	1	U	1	U
Dibenzofuran	2.1	18	0.33	U	10	U	10	U	10	U	10	U
Diethyl Phthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Dimethyl Phthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Di-N-Butyl Phthalate	NS	NS	0.33	U	10	UJ	10	U	10	U	10	UJ
Di-N-Octylphthalate	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Fluoranthene	85	100	0.33	U	10	U	10	U	10	U	10	U
Fluorene	30	100	0.33	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	0.33	0.33	0.033	U	1	U	1	U	1	U	1	U
Hexachlorobutadiene	NS	NS	0.067	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	5	U	5	U	5	U	5	U
Hexachloroethane	NS	NS	0.033	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.033	U	2	U	2	U	2	U	2	U
Isophorone	NS	NS	0.13	U	10	U	10	U	10	U	10	U
Naphthalene	12	100	0.33	U	2	U	2	U	2	U	2	U
Nitrobenzene	0.08	1.8	0.033	U	0.4	U	0.4	U	0.4	U	0.4	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	1	U	1	U	1	U	1	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	10	U	10	U	10	U	10	U
Pentachlorophenol	0.8	1.3	0.27	U	20	U	20	U	20	U	20	U
Phenanthrene	**1.1**	4.9	0.33	U	10	U	10	U	10	U	10	U
Phenol	0.33	100	0.2	U	10	U	10	U	10	U	10	U
Pyrene	64	100	0.33	U	10	U	10	U	10	U	10	U

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003	SB-03_31-33_20221003	SB-04_0-2_20221003
		Lab Sample ID	460-266877-1		460-266877-2	460-266752-1	460-266752-2	460-266752-3	460-266752-4	460-266752-5
		Sample Date	10/5/2022		10/5/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
		Dilution Factor	1	5	1	1	1	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
2,4-Dichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
2,4-Dimethylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2,4-Dinitrophenol	NS	NS	0.29 UJ	NR	0.27 UJ	0.28 U	0.27 U	0.31 U	0.28 U	0.3 U
2,4-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U	0.071 U	0.075 U
2,6-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U	0.071 U	0.075 U
2-Chloronaphthalene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Chlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Methylnaphthalene	NS	NS	0.28 J	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
2-Nitrophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
3- And 4- Methylphenol (Total)	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
3-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U	0.28 U	0.3 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Chloroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
4-Nitrophenol	NS	NS	0.73 U	NR	0.68 U	0.72 U	0.69 U	0.79 U	0.71 U	0.75 U
Acenaphthene	20	100	0.84	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Acenaphthylene	100	100	0.22 J	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Acetophenone	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Anthracene	100	100	2.3	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.025 J
Atrazine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
Benzaldehyde	NS	NS	0.36 UJ	NR	0.34 UJ	0.35 UJ	0.34 UJ	0.39 UJ	0.35 UJ	0.37 UJ
Benzo(a)Anthracene	**1**	1.4	**6.5**	NR	0.034 U	0.031 J	0.034 U	0.049	0.035 U	0.092
Benzo(a)Pyrene	**1**	1	**5.3**	NR	0.034 U	0.025 J	0.034 U	0.041	0.035 U	0.08
Benzo(b)Fluoranthene	**1**	1.4	**7.1**	NR	0.034 U	0.033 J	0.034 U	0.057	0.035 U	0.11
Benzo(g,h,i)Perylene	**0.64**	4.9	**3.3**	NR	0.34 U	0.015 J	0.34 U	0.024 J	0.35 U	0.042 J
Benzo(k)Fluoranthene	**0.8**	4.9	**2.3**	NR	0.034 U	0.014 J	0.034 U	0.022 J	0.035 U	0.036 J
Benzyl Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Biphenyl (Diphenyl)	NS	NS	0.081 J	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.08 J
Caprolactam	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Carbazole	NS	NS	0.86	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Chrysene	**1**	4.9	**6**	NR	0.34 U	0.025 J	0.34 U	0.046 J	0.35 U	0.088 J
Dibenz(a,h)Anthracene	**0.33**	0.33	**0.95**	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Dibenzofuran	2.1	18	0.5	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Diethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Dimethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Di-N-Octylphthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Fluoranthene	85	100	NR	18 D	0.34 U	0.039 J	0.34 U	0.076 J	0.35 U	0.17 J
Fluorene	30	100	0.77	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Hexachlorobenzene	0.33	0.33	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Hexachlorobutadiene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U	0.071 U	0.075 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Hexachloroethane	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	**4.2**	NR	0.034 U	0.018 J	0.034 UJ	0.028 J	0.035 UJ	0.048 J
Isophorone	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U
Naphthalene	12	100	0.37	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Nitrobenzene	0.08	1.8	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U	0.035 U	0.037 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Pentachlorophenol	0.8	1.3	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U	0.28 U	0.3 U
Phenanthrene	**1.1**	4.9	NR	**16 D**	0.34 U	0.015 J	0.34 U	0.035 J	0.35 U	0.1 J
Phenol	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U	0.35 U	0.37 U
Pyrene	64	100	NR	17 D	0.34 U	0.039 J	0.34 U	0.075 J	0.35 U	0.17 J

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-04_32-34_20221003	SB-05_0-2_20221004		SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Lab Sample ID	460-317091-1	460-317091-2	460-266752-6	460-266826-1		460-266826-2	460-266826-3	460-266826-4
		Sample Date	12/11/2024	12/11/2024	10/3/2022	10/4/2022		10/4/2022	10/4/2022	10/4/2022
		Dilution Factor	1	1	1	1	10	1	1	1
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound	**UUSCO**	**RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.27 U	0.29 U	NR	0.27 U	0.29 U	0.28 U
2,4-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.069 U	0.074 U	NR	0.069 U	0.073 U	0.069 U
2,6-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.069 U	0.074 U	NR	0.069 U	0.073 U	0.069 U
2-Chloronaphthalene	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2-Chlorophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2-Methylnaphthalene	NS	NS	0.35 U	0.35 U	0.34 U	0.28 J	NR	0.34 U	0.36 U	0.34 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
2-Nitroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 UJ	NR	0.34 UJ	0.36 UJ	0.34 UJ
2-Nitrophenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
3-Nitroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 UJ	0.27 U	0.29 UJ	NR	0.27 UJ	0.29 UJ	0.28 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Chloroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Nitroaniline	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
4-Nitrophenol	NS	NS	0.72 U	0.72 U	0.69 U	0.74 U	NR	0.69 U	0.73 U	0.69 U
Acenaphthene	20	100	0.35 U	0.021 J	0.34 U	2.7	NR	0.03 J	0.36 U	0.34 U
Acenaphthylene	100	100	0.35 U	0.021 J	0.34 U	0.67	NR	0.037 J	0.01 J	0.34 U
Acetophenone	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Anthracene	100	100	0.014 J	0.065 J	0.34 U	6.5	NR	0.08 J	0.028 J	0.023 J
Atrazine	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
Benzaldehyde	NS	NS	0.35 U	0.35 UJ	0.34 UJ	0.37 UJ	NR	0.34 UJ	0.36 UJ	0.34 UJ
Benzo(a)Anthracene	**1**	1.4	0.081	0.32	0.034 U	NR	**25 D**	0.27	0.036 U	0.034 U
Benzo(a)Pyrene	**1**	1	0.074	0.32	0.034 U	NR	**23 D**	0.29	0.13	0.053
Benzo(b)Fluoranthene	**1**	1.4	0.097	0.41	0.034 U	NR	**29 D**	0.39	0.17	0.034 U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.06 J	0.2 J	0.34 U	**7.5**	NR	**1.3**	0.062 J	0.024 J
Benzo(k)Fluoranthene	**0.8**	4.9	0.045	0.15	0.034 U	**7.6**	NR	0.14	0.066	0.034 U
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.35 U	0.34 U	0.14 J	NR	0.34 U	0.36 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.046 J	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Caprolactam	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Carbazole	NS	NS	0.35 U	0.026 J	0.34 U	1.9	NR	0.023 J	0.36 U	0.34 U
Chrysene	**1**	4.9	0.079 J	0.34 J	0.34 U	NR	**23 D**	0.2 J	0.11 J	0.049 J
Dibenz(a,h)Anthracene	**0.33**	0.33	0.035 U	0.045	0.034 U	**2.7**	NR	0.22	0.036 U	0.034 U
Dibenzofuran	2.1	18	0.35 U	0.35 U	0.34 U	1.2	NR	0.34 U	0.36 U	0.34 U
Diethyl Phthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Dimethyl Phthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.013 J	0.34 U	0.026 J	NR	0.34 U	0.36 U	0.34 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Fluoranthene	85	100	0.14 J	0.61	0.34 U	NR	48 D	0.46	0.22 J	0.1 J
Fluorene	30	100	0.35 U	0.017 J	0.34 U	2.5	NR	0.018 J	0.36 U	0.34 U
Hexachlorobenzene	0.33	0.33	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
Hexachlorobutadiene	NS	NS	0.072 U	0.072 U	0.069 U	0.074 U	NR	0.069 U	0.073 U	0.069 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Hexachloroethane	NS	NS	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.053	0.19	0.034 UJ	NR	**17 D**	**1.2**	0.14	0.071
Isophorone	NS	NS	0.14 U	0.14 U	0.14 U	0.15 U	NR	0.14 U	0.15 U	0.14 U
Naphthalene	12	100	0.35 U	0.009 J	0.34 U	0.47	NR	0.0062 J	0.36 U	0.34 U
Nitrobenzene	0.08	1.8	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.035 U	0.034 U	0.037 U	NR	0.034 U	0.036 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.35 U	0.34 U	0.056 J	NR	0.34 U	0.36 U	0.34 U
Pentachlorophenol	0.8	1.3	0.29 U	0.29 U	0.27 U	0.29 U	NR	0.27 U	0.29 U	0.28 U
Phenanthrene	**1.1**	4.9	0.068 J	0.32 J	0.34 U	NR	**27 D**	0.18 J	0.12 J	0.076 J
Phenol	0.33	100	0.35 U	0.35 U	0.34 U	0.37 U	NR	0.34 U	0.36 U	0.34 U
Pyrene	64	100	0.13 J	0.6	0.34 U	NR	38 D	0.39	0.21 J	0.1 J

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213		SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212		SB-09_10-12_20241212	
		Lab Sample ID	460-266752-7		460-266752-8		460-317270-1		460-317270-2		460-317270-3		460-317182-1		460-317182-2		460-317182-3	
		Sample Date	10/3/2022		10/3/2022		12/13/2024		12/13/2024		12/13/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2,4,5-Trichlorophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2,4,6-Trichlorophenol	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
2,4-Dichlorophenol	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
2,4-Dimethylphenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2,4-Dinitrophenol	NS	NS	0.3	U	0.27	U	0.27	UJ	0.27	UJ	0.27	UJ	0.27	U	0.27	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.076	U	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
2,6-Dinitrotoluene	NS	NS	0.076	U	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
2-Chloronaphthalene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Chlorophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Methylnaphthalene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Methylphenol (O-Cresol)	0.33	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Nitroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
2-Nitrophenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
3- And 4- Methylphenol (Total)	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
3,3'-Dichlorobenzidine	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
3-Nitroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.3	U	0.27	U	0.27	UJ	0.27	UJ	0.27	UJ	0.27	U	0.27	U	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Chloro-3-Methylphenol	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Chloroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Methylphenol (P-Cresol)	0.33	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Nitroaniline	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
4-Nitrophenol	NS	NS	0.76	U	0.69	U	0.67	UJ	0.67	UJ	0.67	UJ	0.67	U	0.67	U	0.67	U
Acenaphthene	20	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Acenaphthylene	100	100	0.37	U	0.34	U	0.016	J	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Acetophenone	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Anthracene	100	100	0.37	U	0.34	U	0.028	J	0.011	J	0.33	U	0.013	J	0.33	U	0.33	U
Atrazine	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Benzaldehyde	NS	NS	0.37	UJ	0.34	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ
Benzo(a)Anthracene	**1**	1.4	0.061		0.034	U	0.17		0.074		0.033	U	0.091		0.033	U	0.033	U
Benzo(a)Pyrene	**1**	1	0.056		0.034	U	0.16		0.08		0.033	U	0.096		0.033	U	0.033	U
Benzo(b)Fluoranthene	**1**	1.4	0.083		0.034	U	0.21		0.11		0.033	U	0.13		0.033	U	0.033	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.029	J	0.34	U	0.12	J	0.059	J	0.33	U	0.067	J	0.33	U	0.33	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.035	J	0.034	U	0.082		0.04		0.033	U	0.044		0.033	U	0.033	U
Benzyl Butyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Biphenyl (Diphenyl)	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.022	J	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Caprolactam	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Carbazole	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Chrysene	**1**	4.9	0.062	J	0.34	U	0.18	J	0.076	J	0.33	U	0.099	J	0.33	U	0.33	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.037	U	0.034	U	0.033		0.015	J	0.033	U	0.017	J	0.033	U	0.033	U
Dibenzofuran	2.1	18	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Diethyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Dimethyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Di-N-Butyl Phthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Di-N-Octylphthalate	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Fluoranthene	85	100	0.094	J	0.34	U	0.23	J	0.11	J	0.33	U	0.15	J	0.33	U	0.33	U
Fluorene	30	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Hexachlorobenzene	0.33	0.33	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Hexachlorobutadiene	NS	NS	0.076	U	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
Hexachlorocyclopentadiene	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Hexachloroethane	NS	NS	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	J	0.034	UJ	0.11		0.055		0.033	U	0.064		0.033	U	0.033	U
Isophorone	NS	NS	0.15	U	0.14	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
Naphthalene	12	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Nitrobenzene	0.08	1.8	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
N-Nitrosodi-N-Propylamine	NS	NS	0.037	U	0.034	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
N-Nitrosodiphenylamine	NS	NS	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Pentachlorophenol	0.8	1.3	0.3	U	0.27	U	0.27	UJ	0.27	UJ	0.27	UJ	0.27	U	0.27	U	0.27	U
Phenanthrene	**1.1**	4.9	0.039	J	0.34	U	0.11	J	0.052	J	0.33	U	0.065	J	0.33	U	0.33	U
Phenol	0.33	100	0.37	U	0.34	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Pyrene	64	100	0.093	J	0.34	U	0.27	J	0.11	J	0.33	U	0.14	J	0.33	U	0.33	U

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-10_0-2_20241212		SB-10_2-4_20241212		SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-4		460-317182-5		460-317182-6		460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2,4,5-Trichlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2,4,6-Trichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
2,4-Dichlorophenol	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
2,4-Dimethylphenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
2,6-Dinitrotoluene	NS	NS	0.067	U	0.068	U	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
2-Chloronaphthalene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Chlorophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Methylnaphthalene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.034	J	0.33	U	0.35	U	0.33	U
2-Methylphenol (O-Cresol)	0.33	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
2-Nitrophenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
3- And 4- Methylphenol (Total)	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
3,3'-Dichlorobenzidine	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
3-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	UJ	0.27	UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Chloro-3-Methylphenol	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Chloroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Methylphenol (P-Cresol)	0.33	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Nitroaniline	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
4-Nitrophenol	NS	NS	0.67	U	0.68	U	0.67	U	0.67	U	0.67	U	0.67	U	0.7	U	0.68	U
Acenaphthene	20	100	0.0097	J	0.0097	J	0.33	U	0.017	J	0.29	J	0.33	U	0.35	U	0.33	U
Acenaphthylene	100	100	0.012	J	0.051	J	0.33	U	0.33	U	0.021	J	0.33	U	0.01	J	0.33	U
Acetophenone	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Anthracene	100	100	0.034	J	0.086	J	0.33	U	0.028	J	0.35		0.33	U	0.019	J	0.33	U
Atrazine	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
Benzaldehyde	NS	NS	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.33	UJ	0.35	UJ	0.33	UJ
Benzo(a)Anthracene	**1**	1.4	0.19		0.61		0.033	U	0.075		0.87		0.033	U	0.12		0.033	U
Benzo(a)Pyrene	**1**	1	0.21		0.6		0.033	U	0.066		0.84		0.033	U	0.13		0.033	U
Benzo(b)Fluoranthene	**1**	1.4	0.25		0.67		0.033	U	0.092		**1.1**		0.033	U	0.16		0.033	U
Benzo(g,h,i)Perylene	**0.64**	4.9	0.12	J	0.39		0.33	U	0.039	J	0.42		0.33	U	0.077	J	0.33	U
Benzo(k)Fluoranthene	**0.8**	4.9	0.098		0.26		0.033	U	0.027	J	0.42		0.033	U	0.06		0.033	U
Benzyl Butyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Biphenyl (Diphenyl)	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.05	J	0.33	U	0.023	J	0.33	U
Caprolactam	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Carbazole	NS	NS	0.014	J	0.014	J	0.33	U	0.013	J	0.15	J	0.33	U	0.35	U	0.33	U
Chrysene	**1**	4.9	0.2	J	0.61		0.33	U	0.087	J	0.86		0.33	U	0.13	J	0.33	U
Dibenz(a,h)Anthracene	**0.33**	0.33	0.032	J	0.097		0.033	U	0.033	U	0.11		0.033	U	0.018	J	0.033	U
Dibenzofuran	2.1	18	0.33	U	0.33	U	0.33	U	0.33	U	0.094	J	0.33	U	0.35	U	0.33	U
Diethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Dimethyl Phthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Di-N-Butyl Phthalate	NS	NS	0.024	J	0.33	U	0.33	U	0.33	U	0.017	J	0.33	U	0.35	U	0.038	J
Di-N-Octylphthalate	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.6	
Fluoranthene	85	100	0.34		1		0.33	U	0.16	J	2		0.33	U	0.22	J	0.33	U
Fluorene	30	100	0.33	U	0.01	J	0.33	U	0.01	J	0.17	J	0.33	U	0.35	U	0.33	U
Hexachlorobenzene	0.33	0.33	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
Hexachlorobutadiene	NS	NS	0.067	U	0.068	U	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
Hexachlorocyclopentadiene	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Hexachloroethane	NS	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.12		0.36		0.033	U	0.036		0.41		0.033	U	0.077		0.033	U
Isophorone	NS	NS	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U	0.13	U
Naphthalene	12	100	0.33	U	0.33	U	0.33	U	0.33	U	0.053	J	0.33	U	0.35	U	0.33	U
Nitrobenzene	0.08	1.8	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
N-Nitrosodi-N-Propylamine	NS	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.035	U	0.033	U
N-Nitrosodiphenylamine	NS	NS	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Pentachlorophenol	0.8	1.3	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.28	U	0.27	U
Phenanthrene	**1.1**	4.9	0.17	J	0.29	J	0.33	U	0.11	J	**1.6**		0.33	U	0.1	J	0.33	U
Phenol	0.33	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.35	U	0.33	U
Pyrene	64	100	0.34		1.2		0.33	U	0.14	J	1.7		0.33	U	0.21	J	0.33	U

Table 3B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211		SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9		460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	5.7	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2,4-Dinitrophenol	NS	NS	0.27	U	0.3	UJ	0.29	U	0.29	U	0.29	U	0.28	U	0.28	U
2,4-Dinitrotoluene	NS	NS	0.069	U	0.076	U	0.074	U	0.074	U	0.072	U	0.071	U	0.069	U
2,6-Dinitrotoluene	NS	NS	0.069	U	0.076	U	0.074	U	0.074	U	0.072	U	0.071	U	0.069	U
2-Chloronaphthalene	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Chlorophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Methylnaphthalene	NS	NS	0.34	U	0.059	J	0.36	U	0.084	J	0.094	J	0.35	U	0.028	J
2-Methylphenol (O-Cresol)	0.33	100	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Nitroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
2-Nitrophenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
3,3'-Dichlorobenzidine	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
3-Nitroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27	UJ	0.3	U	0.29	UJ	0.29	UJ	0.29	UJ	0.28	UJ	0.28	UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Chloroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Nitroaniline	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
4-Nitrophenol	NS	NS	0.69	U	0.76	U	0.74	U	0.74	U	0.72	U	0.71	U	0.69	U
Acenaphthene	20	100	0.34	U	0.26	J	0.36	U	0.21	J	0.32	J	0.044	J	0.24	J
Acenaphthylene	100	100	0.34	U	0.11	J	0.36	U	0.18	J	0.27	J	0.023	J	0.13	J
Acetophenone	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Anthracene	100	100	0.34	U	0.9		0.02	J	0.93		1		0.089	J	0.47	
Atrazine	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
Benzaldehyde	NS	NS	0.34	UJ	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.35	UJ	0.34	UJ
Benzo(a)Anthracene	**1**	1.4	0.034	U	**2.5**		0.06		**1.9**		**2.8**		0.42		**1.7**	
Benzo(a)Pyrene	**1**	1	0.034	U	**2.2**		0.044		**1.6**		**2.7**		0.44		**1.8**	
Benzo(b)Fluoranthene	**1**	1.4	0.034	U	**2.9**		0.055		**2.2**		**3.8**		0.58		**2.5**	
Benzo(g,h,i)Perylene	**0.64**	4.9	0.34	U	**1.2**		0.031	J	**0.69**		**1.3**		0.22	J	**0.96**	
Benzo(k)Fluoranthene	**0.8**	4.9	0.034	U	**1.1**		0.025	J	**0.82**		**1.4**		0.22		**0.94**	
Benzyl Butyl Phthalate	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.34	U	0.021	J	0.36	U	0.026	J	0.028	J	0.35	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.34	U	0.05	J	0.36	U	0.8		0.24	J	0.35	U	0.34	U
Caprolactam	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Carbazole	NS	NS	0.34	U	0.37	J	0.36	U	0.29	J	0.43		0.034	J	0.23	J
Chrysene	**1**	4.9	0.34	U	**2.4**		0.053	J	**1.8**		**2.8**		0.41		**1.7**	
Dibenz(a,h)Anthracene	**0.33**	0.33	0.034	U	0.31		0.036	U	0.19		0.32		0.051		0.23	
Dibenzofuran	2.1	18	0.34	U	0.15	J	0.36	U	0.23	J	0.21	J	0.35	U	0.078	J
Diethyl Phthalate	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Dimethyl Phthalate	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.013	J	0.046	J	0.36	U	0.071	J	0.032	J	0.35	U	0.036	J
Di-N-Octylphthalate	NS	NS	0.19	J	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Fluoranthene	85	100	0.34	U	5.5		0.11	J	4.3		5.9		0.77		3.5	
Fluorene	30	100	0.34	U	0.23	J	0.36	U	0.28	J	0.31	J	0.025	J	0.16	J
Hexachlorobenzene	0.33	0.33	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
Hexachlorobutadiene	NS	NS	0.069	U	0.076	U	0.074	U	0.074	U	0.072	U	0.071	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Hexachloroethane	NS	NS	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	**0.5**	1.4	0.034	U	**1.2**		0.032	J	**0.77**		**1.4**		0.23		**1.1**	
Isophorone	NS	NS	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
Naphthalene	12	100	0.34	U	0.074	J	0.36	U	0.069	J	0.12	J	0.0085	J	0.067	J
Nitrobenzene	0.08	1.8	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.034	U	0.038	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Pentachlorophenol	0.8	1.3	0.27	U	0.3	UJ	0.29	U	0.29	U	0.29	U	0.28	U	0.28	U
Phenanthrene	**1.1**	4.9	0.017	J	**4.3**		0.09	J	**4.1**		**4.6**		0.38		**2**	
Phenol	0.33	100	0.34	U	0.38	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U
Pyrene	64	100	0.013	J	4.7		0.11	J	3.6		5.1		0.7		2.9	

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
		Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1260 (Aroclor 1260)	NS	NS	0.055	J	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
Total PCBs	0.1	1	0.055	J	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U

Table 4A
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		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1221 (Aroclor 1221)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1232 (Aroclor 1232)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1242 (Aroclor 1242)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1248 (Aroclor 1248)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1254 (Aroclor 1254)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1260 (Aroclor 1260)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1262 (Aroclor 1262)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
PCB-1268 (Aroclor 1268)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
Total PCBs	0.1	1	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U

Table 4A
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		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
		Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1221 (Aroclor 1221)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1232 (Aroclor 1232)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1242 (Aroclor 1242)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1248 (Aroclor 1248)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1254 (Aroclor 1254)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1260 (Aroclor 1260)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1262 (Aroclor 1262)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
PCB-1268 (Aroclor 1268)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
Total PCBs	0.1	1	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U

Table 4A
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		AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
		Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
		Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1260 (Aroclor 1260)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
Total PCBs	0.1	1	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U

Table 4A
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		AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
		Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
		Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U

Table 4A
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Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
Total PCBs	0.1	1	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U

Table 4A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
Total PCBs	0.1	1	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 4A
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Queens, NY
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Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
		Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
Total PCBs	0.1	1	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U

Table 4A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1260 (Aroclor 1260)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
Total PCBs	0.1	1	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
		Lab Sample ID	460-349775-22		460-349775-23		460-349775-24		460-349846-6		460-349846-7		460-349846-8	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
Total PCBs	0.1	1	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428		RI-SB-13_0-0.17_20260428	
		Lab Sample ID	460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13		460-349846-14	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
Total PCBs	0.1	1	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
		Lab Sample ID	460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7		460-349933-8	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429		RI-DUP-03_20260429	
		Lab Sample ID	460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13		460-349933-14	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
Total PCBs	0.1	1	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 4A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1	
		Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1221 (Aroclor 1221)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1232 (Aroclor 1232)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1242 (Aroclor 1242)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1248 (Aroclor 1248)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1254 (Aroclor 1254)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1260 (Aroclor 1260)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1262 (Aroclor 1262)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1268 (Aroclor 1268)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
Total PCBs	0.1	1	0.2	U	0.2	U	0.2	U	0.2	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003		SB-03_0-2_20221003		SB-03_31-33_20221003	
		Lab Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2		460-266752-3		460-266752-4	
		Sample Date	10/5/2022		10/5/2022		10/3/2022		10/3/2022		10/3/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1221 (Aroclor 1221)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1232 (Aroclor 1232)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1242 (Aroclor 1242)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1248 (Aroclor 1248)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1254 (Aroclor 1254)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1260 (Aroclor 1260)	NS	NS	0.073	U	0.069	U	0.063	J	0.069	U	0.079	U	0.071	U
PCB-1262 (Aroclor 1262)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
PCB-1268 (Aroclor 1268)	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U	0.071	U
Total PCBs	0.1	1	0.073	U	0.069	U	0.063	J	0.069	U	0.079	U	0.071	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-04_0-2_20221003		SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004	
		Lab Sample ID	460-266752-5		460-317091-1		460-317091-2		460-266752-6		460-266826-1		460-266826-2	
		Sample Date	10/3/2022		12/11/2024		12/11/2024		10/3/2022		10/4/2022		10/4/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U
Total PCBs	0.1	1	0.075	U	0.071	U	0.072	U	0.069	U	0.074	U	0.069	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213	
		Lab Sample ID	460-266826-3		460-266826-4		460-266752-7		460-266752-8		460-317270-1		460-317270-2	
		Sample Date	10/4/2022		10/4/2022		10/3/2022		10/3/2022		12/13/2024		12/13/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U
Total PCBs	0.1	1	0.073	U	0.069	U	0.076	U	0.069	U	0.067	U	0.067	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212		SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212	
		Lab Sample ID	460-317270-3		460-317182-1		460-317182-2		460-317182-3		460-317182-4		460-317182-5	
		Sample Date	12/13/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
Total PCBs	0.1	1	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-6		460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1221 (Aroclor 1221)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1232 (Aroclor 1232)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1242 (Aroclor 1242)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1248 (Aroclor 1248)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1254 (Aroclor 1254)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1260 (Aroclor 1260)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1262 (Aroclor 1262)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
PCB-1268 (Aroclor 1268)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
Total PCBs	0.1	1	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1221 (Aroclor 1221)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1232 (Aroclor 1232)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1242 (Aroclor 1242)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1248 (Aroclor 1248)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1254 (Aroclor 1254)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1260 (Aroclor 1260)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1262 (Aroclor 1262)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
PCB-1268 (Aroclor 1268)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
Total PCBs	0.1	1	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U

Table 4B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024	
		Dilution Factor	1		1	
		Unit	mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071	U	0.069	U
PCB-1221 (Aroclor 1221)	NS	NS	0.071	U	0.069	U
PCB-1232 (Aroclor 1232)	NS	NS	0.071	U	0.069	U
PCB-1242 (Aroclor 1242)	NS	NS	0.071	U	0.069	U
PCB-1248 (Aroclor 1248)	NS	NS	0.071	U	0.069	U
PCB-1254 (Aroclor 1254)	NS	NS	0.071	U	0.069	U
PCB-1260 (Aroclor 1260)	NS	NS	0.071	U	0.069	U
PCB-1262 (Aroclor 1262)	NS	NS	0.071	U	0.069	U
PCB-1268 (Aroclor 1268)	NS	NS	0.071	U	0.069	U
Total PCBs	0.1	1	0.071	U	0.069	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U
Chlordane, cis-	0.014	0.65	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	UJ	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	UJ	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	UJ	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.067	U	0.071	U	0.073	U	0.067	U	0.067	U	0.067	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
		Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Chlordane (Technical)	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0078	J
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Dieldrin	0.005	0.075	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfan I	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfan II	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endrin Aldehyde	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Endrin Ketone	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Heptachlor	0.013	0.53	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Methoxychlor	NS	NS	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
P,P'-DDD	0.0033	5	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.002	U	0.002	U	0.0021	U	0.002	U	0.0022	U
Toxaphene	NS	NS	0.069	U	0.067	U	0.068	U	0.069	U	0.067	U	0.074	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Chlordane (Technical)	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U
Chlordane, cis-	0.014	0.65	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Dieldrin	0.005	0.075	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfan I	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfan II	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfan Sulfate	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endrin Aldehyde	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Endrin Ketone	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Heptachlor	0.013	0.53	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Heptachlor Epoxide	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Methoxychlor	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
P,P'-DDD	0.0033	5	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
P,P'-DDE	0.0033	3.4	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
P,P'-DDT	**0.0033**	3.8	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U
Toxaphene	NS	NS	0.074	U	0.073	U	0.071	U	0.07	U	0.073	U	0.073	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
		Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U
Chlordane, cis-	0.014	0.65	0.0031	J	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan II	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Ketone	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Methoxychlor	NS	NS	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDD	0.0033	5	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	**0.0039**		**0.011**	**J**	0.002	U	**0.005**		0.0021	U	0.0021	U
Toxaphene	NS	NS	0.075	U	0.067	U	0.067	U	0.072	U	0.069	U	0.07	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
		Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
		Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Chlordane (Technical)	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.0021	U
Toxaphene	NS	NS	0.069	U	0.069	U	0.069	U	0.07	U	0.067	U	0.07	U

Table 5A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
		Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
		Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	UJ	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U
Chlordane, cis-	0.014	0.65	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	UJ	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	UJ	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.0022	U	0.0022	U	0.0021	U	0.0021	U	0.002	U
Toxaphene	NS	NS	0.067	U	0.073	U	0.073	U	0.07	U	0.069	U	0.067	U

Table 5A
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		AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.0029	J	0.0021	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0021	U	**0.013**		**0.0091**		0.002	U	0.002	U
Toxaphene	NS	NS	0.07	U	0.07	U	0.07	U	0.071	U	0.068	U	0.068	U

Table 5A
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Queens, NY
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Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U
Chlordane, cis-	0.014	0.65	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 5A
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Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
		Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Chlordane (Technical)	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfan I	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfan II	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Endrin Ketone	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Heptachlor	0.013	0.53	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Methoxychlor	NS	NS	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
P,P'-DDD	0.0033	5	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0022	U	0.002	U	0.002	U	0.002	U	0.0021	U
Toxaphene	NS	NS	0.071	U	0.073	U	0.067	U	0.068	U	0.067	U	0.069	U

Table 5A
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Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0052	J
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	0.0021	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	0.0021	U	0.002	U	0.0021	U	0.0021	U	**0.0037**	
Toxaphene	NS	NS	0.069	U	0.07	U	0.068	U	0.072	U	0.072	U	0.071	U

Table 5A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
		Lab Sample ID	460-349775-22		460-349775-23		460-349775-24		460-349846-6		460-349846-7		460-349846-8	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U
Chlordane, cis-	0.014	0.65	0.0089	J	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	**0.0057**		0.0022	U	0.0021	U	**0.004**	**J**	**0.0037**		0.002	U
Toxaphene	NS	NS	0.073	U	0.072	U	0.072	U	0.068	U	0.068	U	0.069	U

Table 5A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428		RI-SB-13_0-0.17_20260428	
		Lab Sample ID	460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13		460-349846-14	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Chlordane (Technical)	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U
Chlordane, cis-	0.014	0.65	0.0021	U	0.014		0.0021	U	0.0022	U	0.0022	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfan I	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfan II	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfan Sulfate	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endrin Aldehyde	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Endrin Ketone	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Heptachlor	0.013	0.53	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Heptachlor Epoxide	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
Methoxychlor	NS	NS	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
P,P'-DDD	0.0033	5	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
P,P'-DDE	0.0033	3.4	0.0021	U	0.0021	U	0.0021	U	0.0022	U	0.0022	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.0021	U	**0.0066**		0.0021	U	0.0022	U	0.0022	U	0.002	U
Toxaphene	NS	NS	0.071	U	0.071	U	0.069	U	0.073	U	0.074	U	0.068	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
		Lab Sample ID	460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7		460-349933-8	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U
Chlordane, cis-	0.014	0.65	0.0092	J	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.067	U	0.067	U	0.068	U	0.068	U	0.068	U	0.067	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429		RI-DUP-03_20260429	
		Lab Sample ID	460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13		460-349933-14	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U
Chlordane, cis-	0.014	0.65	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan II	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan Sulfate	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Aldehyde	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endrin Ketone	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor Epoxide	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Methoxychlor	NS	NS	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDD	0.0033	5	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDE	0.0033	3.4	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
P,P'-DDT	**0.0033**	3.8	0.002	U	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Toxaphene	NS	NS	0.068	U	0.07	U	0.068	U	0.068	U	0.068	U	0.068	U

Table 5A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1	
		Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U
Chlordane, cis-	0.014	0.65	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.005	0.075	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.025	0.21	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.013	0.53	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	NS	NS	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.0033	5	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.0033	3.4	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	**0.0033**	3.8	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	NS	NS	0.5	U	0.5	U	0.5	U	0.5	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003		SB-03_0-2_20221003	
		Lab Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2		460-266752-3	
		Sample Date	10/5/2022		10/5/2022		10/3/2022		10/3/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Chlordane (Technical)	NS	NS	0.073	U	0.069	U	0.057	J	0.069	U	0.079	U
Chlordane, cis-	**0.014**	0.65	0.0073	U	0.0069	U	0.0052	J	0.0069	U	0.0079	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Dieldrin	0.005	0.075	0.002	J	0.002	U	0.0021	U	0.002	U	0.0023	U
Endosulfan I	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endosulfan II	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endosulfan Sulfate	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endrin Aldehyde	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Endrin Ketone	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.002	U	0.0021	U	0.002	U	0.0023	U
Heptachlor	0.013	0.53	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Heptachlor Epoxide	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Methoxychlor	NS	NS	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
P,P'-DDD	0.0033	5	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
P,P'-DDE	**0.0033**	3.4	0.0073	U	0.0069	U	0.0072	U	0.0069	U	0.0079	U
P,P'-DDT	**0.0033**	3.8	0.0033	J	0.0069	U	0.0072	U	0.0069	U	0.0079	U
Toxaphene	NS	NS	0.073	U	0.069	U	0.072	U	0.069	U	0.079	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003	
		Lab Sample ID	460-266752-4		460-266752-5		460-317091-1		460-317091-2		460-266752-6	
		Sample Date	10/3/2022		10/3/2022		12/11/2024		12/11/2024		10/3/2022	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.071	U	0.075	U	0.071	U	0.072	U	0.069	U
Chlordane, cis-	**0.014**	0.65	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endosulfan II	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endosulfan Sulfate	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endrin Aldehyde	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Endrin Ketone	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0022	U	0.0021	U	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Heptachlor Epoxide	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Methoxychlor	NS	NS	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
P,P'-DDD	0.0033	5	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
P,P'-DDE	**0.0033**	3.4	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
P,P'-DDT	**0.0033**	3.8	0.0071	U	0.0075	U	0.0071	U	0.0072	U	0.0069	U
Toxaphene	NS	NS	0.071	U	0.075	U	0.071	U	0.072	U	0.069	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-05_0-2_20221004		SB-05_29-31_20221004		SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003	
		Lab Sample ID	460-266826-1		460-266826-2		460-266826-3		460-266826-4		460-266752-7	
		Sample Date	10/4/2022		10/4/2022		10/4/2022		10/4/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Chlordane (Technical)	NS	NS	0.12		0.069	U	0.073	U	0.069	U	0.076	U
Chlordane, cis-	**0.014**	0.65	0.013	J	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Dieldrin	0.005	0.075	0.0027		0.0021	U	0.0022	U	0.0021	U	0.0023	U
Endosulfan I	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endosulfan II	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endosulfan Sulfate	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endrin Aldehyde	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Endrin Ketone	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Gamma Bhc (Lindane)	0.025	0.21	0.0022	U	0.0021	U	0.0022	U	0.0021	U	0.0023	U
Heptachlor	0.013	0.53	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Heptachlor Epoxide	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Methoxychlor	NS	NS	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
P,P'-DDD	0.0033	5	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
P,P'-DDE	**0.0033**	3.4	0.0074	U	0.0069	U	0.0073	U	0.0069	U	0.0076	U
P,P'-DDT	**0.0033**	3.8	**0.0063**	**J**	0.0069	U	0.0073	U	0.0069	U	0.0076	U
Toxaphene	NS	NS	0.074	U	0.069	U	0.073	U	0.069	U	0.076	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213		SB-08_9-11_20241213		SB-09_0-2_20241212	
		Lab Sample ID	460-266752-8		460-317270-1		460-317270-2		460-317270-3		460-317182-1	
		Sample Date	10/3/2022		12/13/2024		12/13/2024		12/13/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U
Chlordane, cis-	**0.014**	0.65	0.0069	U	**0.021**		0.0067	U	0.0067	U	0.0067	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan II	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan Sulfate	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Aldehyde	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Ketone	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Heptachlor Epoxide	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Methoxychlor	NS	NS	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDD	0.0033	5	0.0069	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDE	**0.0033**	3.4	0.0069	U	**0.0036**	**J**	0.0067	U	0.0067	U	0.0067	U
P,P'-DDT	**0.0033**	3.8	0.0069	U	**0.0084**		0.0067	U	0.0067	U	0.0067	U
Toxaphene	NS	NS	0.069	U	0.067	U	0.067	U	0.067	U	0.067	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-09_8-10_20241212		SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212		SB-10_8-10_20241212	
		Lab Sample ID	460-317182-2		460-317182-3		460-317182-4		460-317182-5		460-317182-6	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U
Chlordane, cis-	**0.014**	0.65	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Endosulfan I	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan II	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfan Sulfate	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Aldehyde	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Endrin Ketone	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Heptachlor	0.013	0.53	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Heptachlor Epoxide	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Methoxychlor	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDD	0.0033	5	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDE	**0.0033**	3.4	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
P,P'-DDT	**0.0033**	3.8	0.0067	U	0.0067	U	0.0067	U	0.0067	U	0.0067	U
Toxaphene	NS	NS	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Chlordane (Technical)	NS	NS	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U
Chlordane, cis-	**0.014**	0.65	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Dieldrin	0.005	0.075	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Endosulfan I	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endosulfan II	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endosulfan Sulfate	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endrin Aldehyde	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Endrin Ketone	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Gamma Bhc (Lindane)	0.025	0.21	0.002	U	0.002	U	0.002	U	0.0021	U	0.002	U
Heptachlor	0.013	0.53	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Heptachlor Epoxide	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Methoxychlor	NS	NS	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
P,P'-DDD	0.0033	5	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
P,P'-DDE	**0.0033**	3.4	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
P,P'-DDT	**0.0033**	3.8	0.0067	U	0.0067	U	0.0067	U	0.007	U	0.0068	U
Toxaphene	NS	NS	0.067	U	0.067	U	0.067	U	0.07	U	0.068	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Chlordane (Technical)	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U
Chlordane, cis-	**0.014**	0.65	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Dieldrin	0.005	0.075	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Endosulfan I	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endosulfan II	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endosulfan Sulfate	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endosulfans ABS	4.3	35	0	U	0	U	0	U	0	U	0	U
Endrin	0.014	5.3	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endrin Aldehyde	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Endrin Ketone	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U
Heptachlor	0.013	0.53	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Heptachlor Epoxide	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Methoxychlor	NS	NS	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
P,P'-DDD	0.0033	5	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
P,P'-DDE	**0.0033**	3.4	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
P,P'-DDT	**0.0033**	3.8	0.0069	U	0.0076	U	0.0073	U	0.0074	U	0.0072	U
Toxaphene	NS	NS	0.069	U	0.076	U	0.073	U	0.074	U	0.072	U

Table 5B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024	
		Dilution Factor	1		1	
		Unit	mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q
Aldrin	0.0048	0.044	0.0071	U	0.0069	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.18	0.0021	U	0.0021	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.021	0.18	0.0021	U	0.0021	U
Chlordane (Technical)	NS	NS	0.071	U	0.069	U
Chlordane, cis-	**0.014**	0.65	0.0071	U	0.0035	J
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021	U	0.0021	U
Dieldrin	0.005	0.075	0.0021	U	0.0021	U
Endosulfan I	NS	NS	0.0071	U	0.0069	U
Endosulfan II	NS	NS	0.0071	U	0.0069	U
Endosulfan Sulfate	NS	NS	0.0071	U	0.0069	U
Endosulfans ABS	4.3	35	0	U	0	U
Endrin	0.014	5.3	0.0071	U	0.0069	U
Endrin Aldehyde	NS	NS	0.0071	U	0.0069	U
Endrin Ketone	NS	NS	0.0071	U	0.0069	U
Gamma Bhc (Lindane)	0.025	0.21	0.0021	U	0.0021	U
Heptachlor	0.013	0.53	0.0071	U	0.0069	U
Heptachlor Epoxide	NS	NS	0.0071	U	0.0069	U
Methoxychlor	NS	NS	0.0071	U	0.0069	U
P,P'-DDD	0.0033	5	0.0071	U	0.0069	U
P,P'-DDE	**0.0033**	3.4	0.0071	U	0.0069	U
P,P'-DDT	**0.0033**	3.8	0.0071	U	0.0022	J
Toxaphene	NS	NS	0.071	U	0.069	U

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350977-1		460-350977-2		460-350977-3		460-350977-4		460-350977-5		460-350977-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,450		5,350		7,060		2,850		3,300		2,160	
Antimony	NS	NS	0.076	J	0.091	J	0.12	J	0.9	U	1	UJ	0.9	UJ
Arsenic	13	16	2.1		2.2		3.8		0.72	J	0.75	J	0.62	J
Barium	410	410	56.8		50.6		24.9		20.7		21.1	JL	15.1	JL
Beryllium	4.4	43	0.2	J	0.22	J	0.34	J	0.13	J	0.16	J	0.11	J
Cadmium	2.5	2.5	0.14	J	0.12	J	0.49	U	0.45	U	0.5	U	0.45	U
Calcium	NS	NS	34,200		23,900		1,750	J	911		6,200		17,800	
Chromium, Hexavalent	1	1	0.98	U	1	U	1.1	U	0.38	J	1	U	1	U
Chromium, Total	NS	NS	10.8		10.2		13.8		9.6		10.1		6.9	
Cobalt	NS	NS	4.7		4		5.5		3.6		3.1		2.6	
Copper	**50**	280	20.8		15.7		13.3		7.9		8.8		6.4	
Iron	NS	NS	10,900		9,460		13,400		7,230		8,160		5,980	
Lead	**63**	400	41.3		55.8		6.1		1.8		2.9	J	1.7	J
Magnesium	NS	NS	5,700		4,390		2,160		1,500		4,550	J	11,400	J
Manganese	1,600	2,000	159		166		283		201		167	JK	148	JK
Mercury	**0.18**	0.3	0.035		0.028		0.0087	J	0.017	U	0.016	U	0.016	U
Nickel	30	320	11.8		9.4		13.5		7.2		7.4		5.4	
Potassium	NS	NS	1,990		1,430		831		438		618	JL	452	JL
Selenium	3.9	110	0.12	J	1.1	U	0.13	J	1.1	U	1.3	U	1.1	U
Silver	2	110	0.37	U	0.37	U	0.39	U	0.36	U	0.4	U	0.36	U
Sodium	NS	NS	198		234		373		168		211		169	
Thallium	NS	NS	0.096	J	0.084	J	0.068	J	0.36	U	0.054	J	0.36	U
Vanadium	NS	NS	22		17.6		17.2		14.3		11.4		10.9	
Zinc	**109**	6,600	55.7		34.4		22.9		14.8		17.2		11.9	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-02_0-0.17_20260429		RI-SB-02_0-2_20260429		RI-SB-02_2-4_20260429		RI-SB-02_15-17_20260429		RI-SB-02_28-30_20260429		RI-SB-03_0-0.17_20260427	
		Lab Sample ID	460-349933-17		460-349933-18		460-349933-19		460-349933-20		460-349933-21		460-349775-25	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,720		3,950		2,720		4,840		2,750		5,630	
Antimony	NS	NS	0.3	J	0.21	J	0.92	U	0.85	U	1	U	0.24	J
Arsenic	13	16	3.5		1.7		0.75	J	0.87		0.67	J	4.1	
Barium	410	410	74.1		30		19.4		37.8		29.4		58.1	
Beryllium	4.4	43	0.55		0.23	J	0.14	J	0.16	J	0.15	J	0.29	J
Cadmium	2.5	2.5	0.22	J	0.12	J	0.46	U	0.42	U	0.5	U	0.4	J
Calcium	NS	NS	15,000		1,190		929		16,600		1,200		12,700	
Chromium, Hexavalent	1	1	1	U	0.51	J	0.48	J	1	U	0.98	U	0.46	J
Chromium, Total	NS	NS	20.8		11.1		6.7		10.8		6		12.4	
Cobalt	NS	NS	6.9		3.9		2.9		4.1		3.6		4.2	
Copper	**50**	280	**78.7**		19.1		9.2		16.8		9.9		40.3	
Iron	NS	NS	12,100		9,120		5,690		10,500		7,410		11,000	
Lead	**63**	400	**216**		43.9		3.6		4.1		2.2		**127**	
Magnesium	NS	NS	5,420		2,280		1,560		9,610		1,990		5,080	
Manganese	1,600	2,000	229		218		203		203		246		217	
Mercury	**0.18**	0.3	**0.32**		0.034		0.016	U	0.017	U	0.016	U	0.18	
Nickel	30	320	22.2		9.8		7.5		9.3		7.1		12.9	
Potassium	NS	NS	1,050		763		543		1,380		510		774	
Selenium	3.9	110	0.21	J	0.11	J	1.1	U	1.1	U	1.2	U	0.28	J
Silver	2	110	0.18	J	0.35	U	0.37	U	0.34	U	0.4	U	0.15	J
Sodium	NS	NS	642		392		326		448		97.9	J	380	
Thallium	NS	NS	0.086	J	0.062	J	0.37	U	0.1	J	0.059	J	0.079	J
Vanadium	NS	NS	31		16.2		8.1		16.3		10.9		23.5	
Zinc	**109**	6,600	**550**		42.1		17.5		27.1		20.1		106	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349775-26		460-349775-27		460-349775-28		460-349775-29		460-349775-18		460-349775-19	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	8,490		6,070		5,880		2,240		7,500		7,850	
Antimony	NS	NS	0.41	J	0.15	J	0.89	U	0.98	U	0.18	J	0.075	J
Arsenic	13	16	7.6		2.1		0.95		0.48	J	2.6		2.5	
Barium	410	410	80.3		40		39		12.7		50.2		42	
Beryllium	4.4	43	0.38	J	0.27	J	0.24	J	0.094	J	0.29	J	0.3	J
Cadmium	2.5	2.5	0.47	J	0.12	J	0.45	U	0.49	U	0.15	J	0.48	U
Calcium	NS	NS	5,150		5,000		3,620		10,100		5,220		3,500	
Chromium, Hexavalent	1	1	0.67	J	0.41	J	0.54	J	1	U	1.1	U	1.1	U
Chromium, Total	NS	NS	18.1		15.7		18.4		4.9		14.8		15.8	
Cobalt	NS	NS	6.2		6.1		4.6		1.9		4.9		5.6	
Copper	**50**	280	**64.7**		22		16.5		7.5		19.6		18	
Iron	NS	NS	16,700		11,400		10,400		5,030		12,200		13,900	
Lead	**63**	400	**132**		27.4		5.9		1.8		43.6		29.7	
Magnesium	NS	NS	2,930		3,770		3,770		6,480		3,640		3,010	
Manganese	1,600	2,000	230		320		229		111		140		199	
Mercury	**0.18**	0.3	0.16		0.081		0.012	J	0.017	U	0.065		0.037	
Nickel	30	320	17.4		13		11.5		4.6		11.6		11.2	
Potassium	NS	NS	853		702		1,000		281		1,040		1,220	
Selenium	3.9	110	0.37	J	0.14	J	1.1	U	1.2	U	0.25	J	0.15	J
Silver	2	110	0.19	J	0.35	U	0.36	U	0.39	U	0.42	U	0.38	U
Sodium	NS	NS	254		201		209		138		898		985	
Thallium	NS	NS	0.11	J	0.07	J	0.058	J	0.39	U	0.076	J	0.077	J
Vanadium	NS	NS	27.9		17.7		17.2		6		20		22.8	
Zinc	**109**	6,600	**114**		42.3		28.9		10.4		45.3		38.1	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260428		RI-SB-04_28-30_20260428		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349775-20		460-349846-22		460-349846-21		460-350137-1		460-350137-2		460-350137-3	
		Sample Date	4/27/2026		4/28/2026		4/28/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	6,980		2,070		2,600		5,940		6,310		4,410	
Antimony	NS	NS	0.29	J	0.88	U	0.9	U	0.18	J	0.11	J	0.11	JL
Arsenic	13	16	4		0.88		0.64	J	2.2		2.3		1.3	
Barium	410	410	141		16.3		16.4		45.1		51.2		34.2	JL
Beryllium	4.4	43	0.37		0.093	J	0.12	J	0.27	J	0.28	J	0.22	J
Cadmium	2.5	2.5	0.55		0.44	U	0.45	U	0.13	J	0.13	J	0.52	U
Calcium	NS	NS	9,970		15,500		5,000		11,000		5,000		2,840	
Chromium, Hexavalent	1	1	0.78	J	0.99	U	0.99	U	1	U	1	U	1	U
Chromium, Total	NS	NS	14.2		4.4		8.6		14.9		15.5		14.4	JL
Cobalt	NS	NS	5.7		2.3		2.1		4.5		4.6		3.9	
Copper	**50**	280	40.2		7.2		8.4		26.6		25.2		16.8	JL
Iron	NS	NS	12,600		5,290		5,960		11,000		10,900		8,830	
Lead	**63**	400	**369**		1.7		3.8		44.9		61.2		23.2	
Magnesium	NS	NS	5,170		6,450		3,340		3,330		3,660		2,350	
Manganese	1,600	2,000	248		164		135		237		260		232	
Mercury	**0.18**	0.3	0.13		0.016	U	0.017	U	0.041		0.046		0.029	
Nickel	30	320	15.1		4.6		5.8		11.3		12.3		11.4	JL
Potassium	NS	NS	982		352		438		1,190		1,190		700	
Selenium	3.9	110	0.24	J	1.1	U	1.1	U	1.2	U	1.2	U	1.3	U
Silver	2	110	0.14	J	0.35	U	0.36	U	0.39	U	0.38	U	0.42	U
Sodium	NS	NS	764		99.8		138		357		486		305	
Thallium	NS	NS	0.094	J	0.35	U	0.36	U	0.078	J	0.08	J	0.048	J
Vanadium	NS	NS	29		6.4		7.1		17.4		19.5		13.9	
Zinc	**109**	6,600	**215**		11.3		12.9		46.4		52.5		28.5	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-05_15-17_20260511		RI-SB-05_28-30_20260511		RI-SB-06_0-0.17_20260429		RI-SB-06_0-2_20260429		RI-SB-06_2-4_20260429		RI-SB-06_15-17_20260429	
		Lab Sample ID	460-350792-1		460-350792-2		460-349933-1		460-349933-2		460-349933-3		460-349933-4	
		Sample Date	5/11/2026		5/11/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,370		4,510		6,100		4,420		7,100		2,530	
Antimony	NS	NS	0.91	U	0.92	U	0.12	J	1	U	0.82	U	0.78	U
Arsenic	13	16	0.8	J	0.72	J	3.8		1.9		0.77	J	0.51	J
Barium	410	410	26.5		54.2		37.2		34.7		52.6		18.4	
Beryllium	4.4	43	0.14	J	0.27	J	0.25	J	0.23	J	0.26	J	0.12	J
Cadmium	2.5	2.5	0.45	U	0.46	U	0.13	J	0.11	J	0.41	U	0.39	U
Calcium	NS	NS	1,750		1,890		18,500		3,700		1,590		13,600	
Chromium, Hexavalent	1	1	1	U	1	U	1	U	0.39	J	0.99	U	1	U
Chromium, Total	NS	NS	9.1		10.9		12.4		10.4		16.2		6.4	
Cobalt	NS	NS	3.1		3.9		5		4.1		4.9		2.1	
Copper	**50**	280	15.5		13.2		19.8		19.6		17.3		6.1	
Iron	NS	NS	7,310		8,900		11,500		8,630		12,800		5,650	
Lead	**63**	400	5.1		2.6		42.7		24.1		2.5		1.5	
Magnesium	NS	NS	1,980		2,730		4,180		2,750		3,900		6,790	
Manganese	1,600	2,000	206		567		212		237		184		125	
Mercury	**0.18**	0.3	0.016	U	0.017	U	0.062		0.044		0.016	U	0.017	U
Nickel	30	320	7.1		10.2		13.5		10.3		11.5		5	
Potassium	NS	NS	560		890		903		913		1,580		387	
Selenium	3.9	110	1.1	U	1.1	U	0.16	J	1.2	U	1	U	0.98	U
Silver	2	110	0.36	U	0.37	U	0.32	U	0.4	U	0.33	U	0.31	U
Sodium	NS	NS	235		398		254		154		430		111	
Thallium	NS	NS	0.049	J	0.087	J	0.068	J	0.073	J	0.13	J	0.31	U
Vanadium	NS	NS	12.2		15.1		22.7		17.1		20.6		6.6	
Zinc	**109**	6,600	15.7		19.6		44.2		36.4		30.8		10.6	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-06_29-31_20260429		RI-SB-07_0-0.17_20260428		RI-SB-07_0-2_20260428		RI-SB-07_2-4_20260428		RI-SB-07_15-17_20260428		RI-SB-07_33-35_20260428	
		Lab Sample ID	460-349933-5		460-349846-1		460-349846-2		460-349846-3		460-349846-4		460-349846-5	
		Sample Date	4/29/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	2,790		7,320		6,890		5,850		4,430		2,600	
Antimony	NS	NS	1	UJ	0.11	J	0.12	J	0.98	U	1	UJ	0.9	U
Arsenic	13	16	0.76	J	2.7		3.1		1		0.98	J	0.51	J
Barium	410	410	21.8	JL	72.4		64.4		29		33		18.4	
Beryllium	4.4	43	0.13	J	0.33	J	0.31	J	0.28	J	0.19	J	0.12	J
Cadmium	2.5	2.5	0.5	U	0.14	J	0.22	J	0.49	U	0.52	U	0.45	U
Calcium	NS	NS	2,070		60,200		4,190		1,620		1,730	JL	21,000	
Chromium, Hexavalent	1	1	1	U	1.1	U	1.1	U	1	U	1	U	1	U
Chromium, Total	NS	NS	9.6		15.3		17.5		11		13.7		5.2	
Cobalt	NS	NS	2.6		4.3		5.2		4.6		4.4		3.6	
Copper	**50**	280	7.4		18.6		21.8		16.3		15.4		7	
Iron	NS	NS	6,220		10,300		12,400		9,590		8,470		5,590	
Lead	**63**	400	2.1	JL	36.8		**129**		4.4		2.6		20.3	
Magnesium	NS	NS	2,010		9,440		3,820		3,040		2,340		12,200	
Manganese	1,600	2,000	124	JK	199		236		257		234		170	
Mercury	**0.18**	0.3	0.0067	J	0.053		0.063		0.017	U	0.018	U	0.017	U
Nickel	30	320	5.6		11.6		12.4		11.8		9.8		5.2	
Potassium	NS	NS	510	JL	1,950		1,020		754		895		566	
Selenium	3.9	110	1.3	U	0.14	J	0.13	J	1.2	U	1.3	U	1.1	U
Silver	2	110	0.4	UJ	0.41	U	0.39	U	0.39	U	0.41	U	0.36	U
Sodium	NS	NS	102		1,360		486		425		334		128	
Thallium	NS	NS	0.4	U	0.098	J	0.092	J	0.052	J	0.067	J	0.044	J
Vanadium	NS	NS	8.8	JL	20.9		20.1		15.4		13.1	JK	8.3	
Zinc	**109**	6,600	12.9		58.4		86.4		22.6		20.2		13.3	

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		AKRF Sample ID	RI-SB-DUP-02_20260428		RI-SB-08_0-0.17_20260501		RI-SB-08_0-2_20260501		RI-SB-08_2-4_20260501		RI-SB-08_15-17_20260512		RI-SB-08_36-38_20260512	
		Lab Sample ID	460-349846-18		460-350137-4		460-350137-5		460-350137-6		460-350879-1		460-350879-2	
		Sample Date	4/28/2026		5/1/2026		5/1/2026		5/1/2026		5/12/2026		5/12/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	6,360		5,270		6,850		7,360		2,640		2,460	
Antimony	NS	NS	0.97	U	0.12	J	0.18	J	0.2	J	0.94	U	0.93	U
Arsenic	13	16	1.4		4.1		5.1		4.5		0.45	J	0.55	J
Barium	410	410	68.6		66.3		58.6		84.6		14.4		15.1	
Beryllium	4.4	43	0.25	J	0.29	J	0.29	J	0.31	J	0.12	J	0.12	J
Cadmium	2.5	2.5	0.13	J	0.48	U	0.31	J	0.28	J	0.47	U	0.47	U
Calcium	NS	NS	1,810		72,000		11,900		21,400		785		1,160	
Chromium, Hexavalent	1	1	1	U	1	U	1	U	1	U	0.99	U	0.99	U
Chromium, Total	NS	NS	19.3		19.8		22		21.3		5.3		6.6	
Cobalt	NS	NS	6.5		4.4		5.5		5.8		2		2.2	
Copper	**50**	280	23.7		16.4		33.6		37.2		6.3		5.9	
Iron	NS	NS	12,900		10,500		14,300		15,400		5,290		6,140	
Lead	**63**	400	10.8		20.6		**85.6**		**154**		1.6		1.5	
Magnesium	NS	NS	3,680		11,200		4,790		6,030		1,620		1,360	
Manganese	1,600	2,000	561		166		289		267		131		151	
Mercury	**0.18**	0.3	0.013	J	0.035		0.067		0.12		0.015	U	0.017	U
Nickel	30	320	12.7		17.3		18.7		18.4		5.1		5.1	
Potassium	NS	NS	1,930		1,560		1,210		1,470		420		355	
Selenium	3.9	110	1.2	U	0.23	J	0.21	J	0.19	J	1.2	U	1.2	U
Silver	2	110	0.39	U	0.39	U	0.089	J	0.38	U	0.38	U	0.37	U
Sodium	NS	NS	513	J	259		283		272		211		106	
Thallium	NS	NS	0.15	J	0.11	J	0.093	J	0.11	J	0.04	J	0.37	U
Vanadium	NS	NS	22.3		23.1		24		28.6		6.2		7.9	
Zinc	**109**	6,600	33.6		29.9		80.9		91.2		12.3		9.6	

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		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349775-1		460-349775-2		460-349775-3		460-349775-4		460-349775-5		460-349775-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,830		6,040		5,840		7,570		5,250		3,740	
Antimony	NS	NS	0.14	J	0.99	U	0.94	U	0.94	U	0.9	U	0.8	U
Arsenic	13	16	9.3		1.8		1.9		1.3		1.2		0.78	J
Barium	410	410	48.6		28.4		25.1		66.9		31.3		18.7	
Beryllium	4.4	43	0.28	J	0.42		0.31	J	0.44		0.25	J	0.21	J
Cadmium	2.5	2.5	0.18	J	0.5	U	0.47	U	0.47	U	0.45	U	0.4	U
Calcium	NS	NS	13,600		993		1,510		901		1,730		11,300	
Chromium, Hexavalent	1	1	0.48	J	0.57	J	0.62	J	0.42	J	0.57	J	1	U
Chromium, Total	NS	NS	11.5		12		12.7		15.8		13.9		8.9	
Cobalt	NS	NS	4.4		6.7		4.9		6		4.4		3.4	
Copper	**50**	280	24.7		16		13.9		18.7		12.3		8.3	
Iron	NS	NS	10,100		12,200		10,300		12,700		10,600		7,730	
Lead	**63**	400	59.3		5		4.3		7.3		3.1		2.1	
Magnesium	NS	NS	6,430		2,710		2,220		2,910		3,160		8,120	
Manganese	1,600	2,000	256		316		291		277		225		185	
Mercury	**0.18**	0.3	0.054		0.0076	J	0.0096	J	0.016	U	0.016	U	0.016	U
Nickel	30	320	10.9		15.1		11.8		10.6		9.6		7.5	
Potassium	NS	NS	888		518		653		1,150		1,270		965	
Selenium	3.9	110	0.15	J	1.2	U	1.2	U	1.2	U	1.1	U	1	U
Silver	2	110	0.092	J	0.4	U	0.37	U	0.38	U	0.36	U	0.32	U
Sodium	NS	NS	248		133		145		266		201		136	
Thallium	NS	NS	0.091	J	0.05	J	0.054	J	0.082	J	0.067	J	0.066	J
Vanadium	NS	NS	17.9		18.6		14		24.3		17.2		13	
Zinc	**109**	6,600	59.2		32.2		35.6		38.9		25.2		21.1	

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		AKRF Sample ID	RI-SB-09_12-14_20260427		RI-SB-09_14-16_20260427		RI-SB-09_16-18_20260427		RI-SB-09_18-20_20260427		RI-SB-09_20-22_20260427		RI-SB-09_22-24_20260427	
		Lab Sample ID	460-349775-7		460-349775-8		460-349775-9		460-349775-10		460-349775-11		460-349775-12	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	2,530		4,610		2,200		2,660		2,800		2,890	
Antimony	NS	NS	0.95	U	1	U	0.83	U	0.075	J	0.91	U	0.96	U
Arsenic	13	16	0.5	J	0.76	J	0.61	J	0.68	J	0.78	J	0.87	J
Barium	410	410	19.4		36.7		16.3		19.2		15.6		22.5	
Beryllium	4.4	43	0.1	J	0.24	J	0.095	J	0.13	J	0.12	J	0.14	J
Cadmium	2.5	2.5	0.47	U	0.52	U	0.41	U	0.47	U	0.45	U	0.48	U
Calcium	NS	NS	25,400		33,200		25,400		23,700		9,230		20,000	
Chromium, Hexavalent	1	1	0.44	J	0.45	J	0.99	U	1	U	0.42	J	0.58	J
Chromium, Total	NS	NS	5.3		9.8		5.3		7.5		8.6		14.6	
Cobalt	NS	NS	2.3		4		2.6		2.3		2.7		2.8	
Copper	**50**	280	7.2		9.6		6.6		7.8		7.7		12.2	
Iron	NS	NS	5,130		8,840		6,060		6,250		6,760		7,390	
Lead	**63**	400	1.8		3		1.7		2.1		2		2.3	
Magnesium	NS	NS	12,800		17,400		13,200		12,200		6,450		11,200	
Manganese	1,600	2,000	152		179		120		155		175		211	
Mercury	**0.18**	0.3	0.017	U	0.019	U	0.016	U	0.015	U	0.017	U	0.017	U
Nickel	30	320	4.7		8.5		5.7		5.4		6.6		7.6	
Potassium	NS	NS	620		1,270		442		564		374		578	
Selenium	3.9	110	1.2	U	1.3	U	1	U	1.2	U	1.1	U	1.2	U
Silver	2	110	0.38	U	0.42	U	0.33	U	0.37	U	0.36	U	0.39	U
Sodium	NS	NS	94.3	J	170		102		113		121		130	
Thallium	NS	NS	0.38	U	0.079	J	0.33	U	0.056	J	0.36	U	0.045	J
Vanadium	NS	NS	7		15.5		10.9		9.7		8.5		10.4	
Zinc	**109**	6,600	11.8		25.4		12.6		16.7		16.1		43.1	

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		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349775-13		460-349775-14		460-349775-15		460-349775-16		460-349775-17		460-349775-21	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,410		2,840		4,230		5,240		8,120		5,650	
Antimony	NS	NS	1	U	0.98	U	0.75	U	1.1	UJ	0.96	UJ	0.42	J
Arsenic	13	16	1.3		0.56	J	0.86		0.89	J	1.3		4.3	
Barium	410	410	21.9		17.5		36.1		48.6	J	81	J	342	
Beryllium	4.4	43	0.16	J	0.12	J	0.2	J	0.21	J	0.32	J	0.31	J
Cadmium	2.5	2.5	0.51	U	0.49	U	0.38	U	0.54	U	0.48	U	0.61	
Calcium	NS	NS	18,200		24,800		32,300		25,200		21,600		13,800	
Chromium, Hexavalent	1	1	0.67	J	0.4	J	0.43	J	0.45	J	0.45	J	0.44	J
Chromium, Total	NS	NS	24.1		5.9		9.3		12.3	JK	19.6	JK	17	
Cobalt	NS	NS	3.2		2.5		3.9		4.9		7		5.5	
Copper	**50**	280	11.8		6.9		11.8		12		17		**52.8**	
Iron	NS	NS	7,930		5,910		8,760		10,800		16,100		13,700	
Lead	**63**	400	6.2		1.6		2.4		2.9		4.6		**221**	
Magnesium	NS	NS	8,670		15,700		16,500		13,600		12,900		3,960	
Manganese	1,600	2,000	163		145		234		193	JK	311	JK	252	
Mercury	**0.18**	0.3	0.0076	J	0.018	U	0.017	U	0.017	U	0.017	U	**0.29**	
Nickel	30	320	8.2		5.7		9.7		10.5		17.1		15	
Potassium	NS	NS	756		495		992		1,450	JK	2,530	JK	1,100	
Selenium	3.9	110	1.3	U	1.2	U	0.94	U	1.3	U	1.2	U	0.42	J
Silver	2	110	0.41	U	0.39	U	0.3	U	0.43	U	0.39	U	0.37	J
Sodium	NS	NS	178		176		188		197		261		341	
Thallium	NS	NS	0.042	J	0.39	U	0.075	J	0.078	J	0.16	J	0.095	J
Vanadium	NS	NS	11.8		8.4		15.1		17.5	JK	25.6	JK	28.9	
Zinc	**109**	6,600	38.9		15.7		23.9		30.1		42.7		**270**	

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		AKRF Sample ID	RI-SB-10_4-6_20260427			RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428	
		Lab Sample ID	460-349775-22			460-349775-23		460-349775-24		460-349846-6		460-349846-7	
		Sample Date	4/27/2026			4/27/2026		4/27/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		10	1		1		1		1	
		Unit	mg/kg		mg/kg	mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	7,230		NR	6,760		6,980		7,110		7,010	
Antimony	NS	NS	1		NR	0.97	U	0.99	U	0.94	U	0.91	U
Arsenic	13	16	7.1		NR	0.9	J	0.84	J	1.8		1.8	
Barium	410	410	90.3		NR	39.1		39.1		55.9		72.5	
Beryllium	4.4	43	0.37		NR	0.29	J	0.3	J	0.31	J	0.3	J
Cadmium	2.5	2.5	0.94		NR	0.48	U	0.5	U	0.11	J	0.15	J
Calcium	NS	NS	10,800		NR	1,630		2,180		2,710		3,460	
Chromium, Hexavalent	1	1	1.1	U	NR	1.1	U	0.46	J	0.99	U	1	U
Chromium, Total	NS	NS	22.7		NR	18.7		17.5		17.9		13.3	
Cobalt	NS	NS	6.9		NR	5.4		5.9		5.4		5.1	
Copper	**50**	280	**68.7**		NR	24		15.6		20.9		21.1	
Iron	NS	NS	30,600		NR	13,000		13,600		12,600		12,000	
Lead	**63**	400	NR		**4,660**	6.5		3.9		45.2		40.8	
Magnesium	NS	NS	3,990		NR	3,560		3,870		3,840		3,710	
Manganese	1,600	2,000	335		NR	254		278		277		298	
Mercury	**0.18**	0.3	**0.19**		NR	0.018	U	0.018	U	0.032		0.028	
Nickel	30	320	23.2		NR	11.1		12.2		12.6		13.3	
Potassium	NS	NS	696		NR	1,790		1,960		1,370		1,240	
Selenium	3.9	110	0.52	J	NR	1.2	U	1.2	U	1.2	U	0.12	J
Silver	2	110	0.6		NR	0.39	U	0.4	U	0.38	U	0.36	U
Sodium	NS	NS	369		NR	266		347		298		216	
Thallium	NS	NS	0.097	J	NR	0.093	J	0.099	J	0.1	J	0.099	J
Vanadium	NS	NS	30.7		NR	22.3		23.6		23.4		23.1	
Zinc	**109**	6,600	**162**		NR	30.5		33.5		45		60.3	

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		AKRF Sample ID	RI-SB-11_2-4_20260428		RI-SB-11_4-6_20260428		RI-SB-12_0-0.17_20260428		RI-SB-12_4-6_20260428		RI-SB-12_6-8_20260428		RI-SB-12_8-10_20260428	
		Lab Sample ID	460-349846-8		460-349846-9		460-349846-10		460-349846-11		460-349846-12		460-349846-13	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	7,180		5,930		4,400		7,260		6,830		5,150	
Antimony	NS	NS	0.94	U	0.85	J	0.11	J	0.92	U	1	U	1	U
Arsenic	13	16	0.88	J	10.2		3.3		2.3		0.88	J	0.86	J
Barium	410	410	75.2		154		40.5		73.6		55.3		41.7	
Beryllium	4.4	43	0.22	J	0.4		0.22	J	0.23	J	0.28	J	0.23	J
Cadmium	2.5	2.5	0.47	U	1		0.26	J	0.46	U	0.5	U	0.51	U
Calcium	NS	NS	2,570		25,700		28,800		1,600		2,060		1,170	
Chromium, Hexavalent	1	1	1	U	1	U	1	U	1	U	1.1	U	1.1	U
Chromium, Total	NS	NS	18.4		15.6		8.5		53.5		15.4		13.8	
Cobalt	NS	NS	5.2		6.4		3.1		4.6		5.4		4.6	
Copper	**50**	280	16.8		**106**		23.4		18.2		13.5		10.8	
Iron	NS	NS	12,900		25,700		7,950		19,000		11,100		9,570	
Lead	**63**	400	3.6		**298**		36		4		3.2		2.8	
Magnesium	NS	NS	4,180		5,280		5,060		2,710		3,480		2,520	
Manganese	1,600	2,000	246		238		195		282		283		287	
Mercury	**0.18**	0.3	0.017	U	**0.25**		0.02		0.017	U	0.018	U	0.018	U
Nickel	30	320	10		20		7		12.3		11.3		9.3	
Potassium	NS	NS	2,640		934		639		2,520		1,320		1,120	
Selenium	3.9	110	1.2	U	0.54	J	0.16	J	1.1	U	1.2	U	1.3	U
Silver	2	110	0.38	U	0.37	J	0.39	U	0.37	U	0.4	U	0.41	U
Sodium	NS	NS	231		537		298		391		209		318	
Thallium	NS	NS	0.14	J	0.15	J	0.066	J	0.2	J	0.085	J	0.07	J
Vanadium	NS	NS	22.6		31.1		12		21.4		20.1		17.8	
Zinc	**109**	6,600	39.1		**253**		61.5		60.2		27.6		21.7	

Table 6A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-13_0-0.17_20260428		RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429	
		Lab Sample ID	460-349846-14		460-349846-15		460-349846-16		460-349846-17		460-349933-6		460-349933-7	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,820		6,910		7,560		6,240		7,030		5,990	
Antimony	NS	NS	0.9	U	0.92	U	0.93	U	0.9	U	0.071	J	0.28	J
Arsenic	13	16	1.2		1		1		0.94		1.9		3.2	
Barium	410	410	43.9		55.7		55.3		45.5		60.3		69.6	
Beryllium	4.4	43	0.26	J	0.31	J	0.31	J	0.27	J	0.26	J	0.37	
Cadmium	2.5	2.5	0.45	U	0.46	U	0.46	U	0.45	U	0.47	U	0.33	J
Calcium	NS	NS	2,200		2,280		1,140		1,120		45,400		12,400	
Chromium, Hexavalent	1	1	1	U	0.99	U	1	U	1	U	1	U	0.99	U
Chromium, Total	NS	NS	12.4		17.3		17.3		16.6		12.5		12.7	
Cobalt	NS	NS	4.2		5		5.5		5.5		4.3		5.4	
Copper	**50**	280	11.2		12.3		14.2		13		18.9		47.1	
Iron	NS	NS	10,900		11,100		11,800		11,200		9,110		11,800	
Lead	**63**	400	10.2		5.2		4.6		2.9		36.5		**160**	
Magnesium	NS	NS	2,590		3,120		3,420		2,950		7,510		5,420	
Manganese	1,600	2,000	213		249		286		289		147		245	
Mercury	**0.18**	0.3	0.0061	J	0.017	U	0.0067	J	0.017	U	0.041		**0.25**	
Nickel	30	320	7.8		10.8		11		10.1		11.4		16.4	
Potassium	NS	NS	1,090		1,250		1,320		1,370		1,710		763	
Selenium	3.9	110	1.1	U	1.1	U	1.2	U	1.1	U	1.2	U	0.22	J
Silver	2	110	0.36	U	0.37	U	0.37	U	0.36	U	0.38	U	0.12	J
Sodium	NS	NS	240		215		214		159	J	300		199	
Thallium	NS	NS	0.094	J	0.092	J	0.1	J	0.089	J	0.089	J	0.092	J
Vanadium	NS	NS	15.3		21.8		22.1		20.2		18.2		27.2	
Zinc	**109**	6,600	47.9		41		40.1		33		39.7		**142**	

Table 6A
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Soil Analytical Results of Metals

		AKRF Sample ID	RI-SB-14_4-6_20260429		RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429		RI-SB-15_15-17_20260429	
		Lab Sample ID	460-349933-8		460-349933-9		460-349933-10		460-349933-11		460-349933-12		460-349933-13	
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,000		2,630		6,180		6,720		4,110		4,030	
Antimony	NS	NS	0.92	U	0.86	U	0.067	J	0.96	U	0.77	U	0.87	U
Arsenic	13	16	0.84	J	0.5	J	2.5		1		1.3		0.77	J
Barium	410	410	23.3		18.9		62		48.9		31		25.2	
Beryllium	4.4	43	0.16	J	0.11	J	0.22	J	0.25	J	0.26	J	0.19	J
Cadmium	2.5	2.5	0.46	U	0.43	U	0.12	J	0.48	U	0.38	U	0.43	U
Calcium	NS	NS	601		577		26,200		2,410		12,300		1,760	
Chromium, Hexavalent	1	1	0.99	U	0.98	U	1	U	1	U	1	U	1	U
Chromium, Total	NS	NS	5.1		6.6		12.1		31.9		16.4		12.7	
Cobalt	NS	NS	2.2		2.3		4.6		8.5		5.1		4	
Copper	**50**	280	9.2		5.6		17		**56.7**		21		11	
Iron	NS	NS	4,650		5,570		11,700		13,300		9,970		8,530	
Lead	**63**	400	1.8		1.4		34.5		4.6		16.4		20.8	J
Magnesium	NS	NS	1,460		1,130		4,350		4,830		8,210		2,850	
Manganese	1,600	2,000	184		125		256		330		262		203	
Mercury	**0.18**	0.3	0.016	U	0.015	U	0.065		0.016	U	0.031		0.017	U
Nickel	30	320	5.7		5.2		12.4		17.2		10.9		9.4	
Potassium	NS	NS	494		405		1,280		1,150		824		795	
Selenium	3.9	110	1.1	U	1.1	U	0.11	J	1.2	U	0.96	U	1.1	U
Silver	2	110	0.37	U	0.34	U	0.34	U	0.38	U	0.31	U	0.35	U
Sodium	NS	NS	86.6	J	102		375		621		297		260	
Thallium	NS	NS	0.046	J	0.34	U	0.078	J	0.091	J	0.061	J	0.05	J
Vanadium	NS	NS	9		7.3		19.7		30.4		16.3		13.8	
Zinc	**109**	6,600	12.1		11.1		42.3		50.5		32.8		22.3	

Table 6A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	RI-DUP-03_20260429		RI-FB-02_20260429		RI-FB-03_20260501		RI-FB-04_20260512		RI-SB-FB-01_20260428	
		Lab Sample ID	460-349933-14		460-349933-15		460-350137-7		460-350879-3		460-349846-19	
		Sample Date	4/29/2026		4/29/2026		5/1/2026		5/12/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		µg/L		µg/L		µg/L		µg/L	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,840		40	U	40	U	40	U	40	U
Antimony	NS	NS	0.86	U	2	U	2	U	2	U	2	U
Arsenic	13	16	0.82	J	2	U	2	U	2	U	2	U
Barium	410	410	33.4		4	U	4	U	4	U	4	U
Beryllium	4.4	43	0.18	J	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	2.5	2.5	0.43	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	NS	2,040	J	500	U	453	J	500	U	500	U
Chromium, Hexavalent	1	1	1	U	10	U	10	U	10	U	10	U
Chromium, Total	NS	NS	8.2		4	U	4	U	4	U	4	U
Cobalt	NS	NS	4		2	U	2	U	2	U	2	U
Copper	**50**	280	10.3		4	U	4	U	4	U	4	U
Iron	NS	NS	8,050		120	U	120	U	120	U	120	U
Lead	**63**	400	2.6	J	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	NS	NS	2,560		200	U	248		200	U	200	U
Manganese	1,600	2,000	185		8	U	8	U	8	U	8	U
Mercury	**0.18**	0.3	0.015	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	30	320	8.1		4	U	4	U	4	U	4	U
Potassium	NS	NS	875		200	U	200	U	200	U	200	U
Selenium	3.9	110	1.1	U	2.5	U	2.5	U	2.5	U	2.5	U
Silver	2	110	0.35	U	2	U	2	U	2	U	2	U
Sodium	NS	NS	224		500	U	566		500	U	500	U
Thallium	NS	NS	0.058	J	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	NS	12.5		4	U	4	U	4	U	4	U
Zinc	**109**	6,600	17.7		16	U	16	U	16	U	16	U

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003		SB-03_0-2_20221003		SB-03_31-33_20221003	
		Lab Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2		460-266752-3		460-266752-4	
		Sample Date	10/5/2022		10/5/2022		10/3/2022		10/3/2022		10/3/2022		10/3/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	5,960		2,340		4,180		2,810		6,790		3,030	
Antimony	NS	NS	0.25	J	0.81	U	1	UJ	0.94	U	0.16	J	1	U
Arsenic	13	16	2.2		0.62	J	1.5		0.61	J	2.5		0.86	J
Barium	410	410	35.1		20.7		36.3		23.4		62.6		19.1	
Beryllium	4.4	43	0.32	J	0.12	J	0.24	J	0.23	J	0.36	J	0.16	J
Cadmium	2.5	2.5	0.098	J	0.81	U	0.14	J	0.11	J	0.21	J	1	U
Calcium	NS	NS	5,840		7,590		7,730		21,600		32,300		1,560	
Chromium, Hexavalent	1	1	2.1	U	2	U	2.1	U	2.1	U	2.3	U	2.2	U
Chromium, Total	NS	NS	16.7		8		9.5		8.3		16.4		10.1	
Cobalt	NS	NS	5.2		2.9		3.7		2.9		5		2.6	
Copper	**50**	280	15.2		6.8		12.5		9.5		23.3		8.2	
Iron	NS	NS	10,500		5,240		7,870		6,500		11,300		6,720	
Lead	**63**	400	19.1		2.8		13		4		**81.7**		2.7	
Magnesium	NS	NS	2,460		4,370		4,190		12,100		5,740		1,940	
Manganese	1,600	2,000	338		183		207	JK	168		216		177	
Mercury	**0.18**	0.3	0.018		0.016	U	0.15		0.07		0.077		0.071	
Nickel	30	320	12.1		5.7		8.8		6.7		13.5		6.4	
Potassium	NS	NS	714		383		744		522		1,360		510	
Selenium	3.9	110	1.1	U	1	U	0.16	J	0.17	J	0.18	J	1.2	U
Silver	2	110	0.35	U	0.32	U	0.41	U	0.38	U	0.44	U	0.4	U
Sodium	NS	NS	152		117		275		201		309		161	
Thallium	NS	NS	0.058	J	0.32	U	0.11	J	0.069	J	0.093	J	0.4	U
Vanadium	NS	NS	21.8		7.4		14.8		9.8		20.8		8.5	
Zinc	**109**	6,600	28.9		10.2		36.2		15.2		65.1		14.4	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20221003		SB-04_0-2_20241211		SB-04_2-4_20241211		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004	
		Lab Sample ID	460-266752-5		460-317091-1		460-317091-2		460-266752-6		460-266826-1		460-266826-2	
		Sample Date	10/3/2022		12/11/2024		12/11/2024		10/3/2022		10/4/2022		10/4/2022	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	9,180		6,570		5,950		4,170		6,680		3,380	
Antimony	NS	NS	0.49	J	0.93	U	0.81	J	1	U	0.3	J	1	U
Arsenic	13	16	4		2.4		4.5		1.3		6.9		0.72	J
Barium	410	410	78.8		40.5		117		35.4		119		22.4	
Beryllium	4.4	43	0.63		0.25	J	0.31	J	0.26	J	0.4	J	0.19	J
Cadmium	2.5	2.5	0.43	J	0.93	U	0.55	J	1	U	0.66	J	1	U
Calcium	NS	NS	9,950		6,550		4,010		1,230		18,600		18,100	
Chromium, Hexavalent	1	1	2.2	U	NR		NR		2.1	U	2.2	U	2.1	U
Chromium, Total	NS	NS	19.1		12.1		16.2		19.3		15.5		9.7	
Cobalt	NS	NS	9.6		4.7		5.7		4.6		5.3		3	
Copper	**50**	280	34.8		18.2		**50.5**		18.3		**63.1**		8.9	
Iron	NS	NS	20,700		10,800		17,100		10,400		13,600		6,800	
Lead	**63**	400	**80**		57.4		**237**		6.1		**283**		4.8	
Magnesium	NS	NS	4,900		3,950		3,410		2,050		5,510		9,550	
Manganese	1,600	2,000	689		203		299		268		265		190	
Mercury	**0.18**	0.3	**0.59**		0.062		0.084		0.018	U	0.094		0.017	U
Nickel	30	320	20.7		10.9		16.9		10.2		16.3		6.7	
Potassium	NS	NS	2,720		968		741		826		1,050		694	
Selenium	3.9	110	0.35	J	1.2	U	0.27	J	1.3	U	0.48	J	1.3	U
Silver	2	110	0.43	U	0.37	U	0.13	J	0.4	U	0.25	J	0.41	U
Sodium	NS	NS	301		88.9	J	90.8	J	199		444		175	
Thallium	NS	NS	0.21	J	0.073	J	0.091	J	0.07	J	0.13	J	0.41	U
Vanadium	NS	NS	31.6		20.5		31.6		15.3		28.1		12.5	
Zinc	**109**	6,600	107		50		**173**		27.3		**149**		16.4	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003		SB-07_32-34_20221003		SB-08_0-2_20241213		SB-08_2-4_20241213	
		Lab Sample ID	460-266826-3		460-266826-4		460-266752-7		460-266752-8		460-317270-1		460-317270-2	
		Sample Date	10/4/2022		10/4/2022		10/3/2022		10/3/2022		12/13/2024		12/13/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	6,750		3,730		5,980		3,830		5,770		8,140	
Antimony	NS	NS	1	U	1	U	0.2	J	1	U	0.9	U	0.38	J
Arsenic	13	16	3.4		0.79	J	3.9		1		2.3		12.7	
Barium	410	410	37.3		23		66.6		29.2		55.4		51.8	
Beryllium	4.4	43	0.41	J	0.19	J	0.31	J	0.22	J	0.27	J	0.35	J
Cadmium	2.5	2.5	0.16	J	1	U	0.33	J	1	U	0.33	J	0.26	J
Calcium	NS	NS	8,910		22,200		27,200		6,370		24,400		2,100	
Chromium, Hexavalent	1	1	2.2	U	2.1	U	2.3	U	2.1	U	NR		NR	
Chromium, Total	NS	NS	12.3		9.1		15.1		10.2		10.7		14.4	
Cobalt	NS	NS	6		3.7		5.4		3.6		3.9		5.6	
Copper	**50**	280	27.7		9.6		39.8		15.4		23.4		**62.3**	
Iron	NS	NS	11,500		8,350		13,300		8,020		9,120		15,700	
Lead	**63**	400	30.4		2.2		**131**		13.7		44.3		62.5	
Magnesium	NS	NS	3,720		14,700		11,900		4,700		5,300		2,370	
Manganese	1,600	2,000	335		176		274		212		194		280	
Mercury	**0.18**	0.3	0.075		0.034		0.11		0.016	U	0.043		0.064	
Nickel	30	320	12.3		7.9		16.8		8.1		9.8		10.7	
Potassium	NS	NS	763		918		1,220		729		800		636	
Selenium	3.9	110	0.19	J	1.3	U	0.19	J	1.2	U	0.14	J	0.33	J
Silver	2	110	0.42	U	0.4	U	0.11	J	0.4	U	0.36	U	0.23	J
Sodium	NS	NS	281		281		402		170		192		65.9	J
Thallium	NS	NS	0.079	J	0.049	J	0.11	J	0.062	J	0.073	J	0.17	J
Vanadium	NS	NS	17.2		15.5		32.6		13.4		16		21.9	
Zinc	**109**	6,600	42.5		22.7		109		21.4		63.5		48.5	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-08_9-11_20241213		SB-09_0-2_20241212		SB-09_8-10_20241212		SB-09_10-12_20241212		SB-10_0-2_20241212		SB-10_2-4_20241212	
		Lab Sample ID	460-317270-3		460-317182-1		460-317182-2		460-317182-3		460-317182-4		460-317182-5	
		Sample Date	12/13/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/12/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	2,730		6,190		3,520		1,980		5,680		3,470	
Antimony	NS	NS	0.92	U	0.83	U	0.89	U	0.88	UJ	0.17	JL	0.9	U
Arsenic	13	16	0.99		3.4		0.82	J	0.36	J	2.2		0.95	
Barium	410	410	25.1		38.7		23.8		12.2		53.9		31.4	
Beryllium	4.4	43	0.12	J	0.22	J	0.19	J	0.12	J	0.26	JL	0.15	J
Cadmium	2.5	2.5	0.92	U	0.12	J	0.89	U	0.88	U	0.2	J	0.9	U
Calcium	NS	NS	1,380		20,300		783		18,800		5,860		1,240	
Chromium, Hexavalent	1	1	NR		NR		NR		NR		NR		NR	
Chromium, Total	NS	NS	3.1		11.4		6.9		4		14.6	JL	9.7	
Cobalt	NS	NS	0.75	J	5.5		3.2		1.7	J	4.9		3.1	
Copper	**50**	280	5.3		18.2		12.3		4.3		23.6		13.4	
Iron	NS	NS	11,100		11,700		7,520		3,700		11,400		6,230	
Lead	**63**	400	1.7		44.7		4.9		1.2		**379**		23.9	
Magnesium	NS	NS	422		4,060		1,720		9,170		5,110		1,820	
Manganese	1,600	2,000	263		178		184		129	JL	255		155	
Mercury	**0.18**	0.3	0.016	U	0.059		0.015	U	0.016	U	0.067		0.049	
Nickel	30	320	1.7	J	14.7		7.2		3.5		12.9		7.9	
Potassium	NS	NS	896		853		549		316		1,090		585	
Selenium	3.9	110	1.2	U	0.11	J	1.1	U	1.1	U	0.2	J	1.1	U
Silver	2	110	0.37	U	0.33	U	0.36	U	0.35	U	0.39	U	0.36	U
Sodium	NS	NS	256		521		234		152		371		249	
Thallium	NS	NS	0.044	J	0.059	J	0.039	J	0.35	U	0.086	J	0.048	J
Vanadium	NS	NS	2.5		15.3		8.5		5		19.5	J	10.8	
Zinc	**109**	6,600	44		43.8		16.6		10		62.8		39.3	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-10_8-10_20241212		SB-11_0-2_20241212		SB-11_2-4_20241212		SB-11_4-6_20241212		SB-12_0-2_20241211		SB-12_8-10_20241211	
		Lab Sample ID	460-317182-6		460-317182-7		460-317182-8		460-317182-9		460-317091-3		460-317091-4	
		Sample Date	12/12/2024		12/12/2024		12/12/2024		12/12/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	7,110		7,140		7,800		4,200		6,270		4,420	
Antimony	NS	NS	0.89	U	0.9	U	0.93	U	0.85	U	1	U	0.97	U
Arsenic	13	16	1.9		1.8		10		0.88		3.3		4.2	
Barium	410	410	41		30.6		62.9		35.3		68.1		29.8	
Beryllium	4.4	43	0.31	J	0.24	J	0.33	J	0.17	J	0.28	J	0.39	
Cadmium	2.5	2.5	0.89	U	0.9	U	0.33	J	0.85	U	0.2	J	0.12	J
Calcium	NS	NS	12,900		10,000		2,070		1,530		8,180		6,330	
Chromium, Hexavalent	1	1	NR		NR		NR		NR		NR		NR	
Chromium, Total	NS	NS	25		12.2		24.5		9.7		12.8		8.7	
Cobalt	NS	NS	6.6		6.1		8		3.8		4.1		4	
Copper	**50**	280	45.5		16.6		**52.8**		16.4		20.4		13.1	
Iron	NS	NS	18,000		11,300		15,300		8,180		9,960		8,470	
Lead	**63**	400	3.4		10.5		**94.5**		3		**109**		4.3	
Magnesium	NS	NS	6,260		3,730		3,730		2,290		4,210		4,930	
Manganese	1,600	2,000	309		213		353		224		177		219	
Mercury	**0.18**	0.3	0.016	U	0.054		0.1		0.016	U	0.024		0.016	U
Nickel	30	320	15.2		15.4		19.8		9.1		11		7.5	
Potassium	NS	NS	771		810		1,140		578		716		1,100	
Selenium	3.9	110	1.1	U	1.1	U	0.2	J	1.1	U	0.24	J	0.16	J
Silver	2	110	0.36	U	0.36	U	0.089	J	0.34	U	0.4	U	0.39	U
Sodium	NS	NS	862		308		289		188		149		181	
Thallium	NS	NS	0.068	J	0.063	J	0.12	J	0.053	J	0.077	J	0.075	J
Vanadium	NS	NS	44.5		25.4		32		12.9		21.7		12	
Zinc	**109**	6,600	30.4		27.1		**136**		17		74.3		29.8	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-12_10-12_20241211		SB-13_0-2_20241211		SB-13_2-4_20241211		SB-14_0-2_20241211		SB-14_2-4_20241211	
		Lab Sample ID	460-317091-5		460-317091-10		460-317091-11		460-317091-8		460-317091-9	
		Sample Date	12/11/2024		12/11/2024		12/11/2024		12/11/2024		12/11/2024	
		Dilution Factor	1		1		1		1		1	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NS	3,880		6,520		8,030		4,700		5,890	
Antimony	NS	NS	0.88	U	0.16	J	0.89	U	0.91	U	0.19	J
Arsenic	13	16	0.81	J	7.2		2.7		3.5		3.5	
Barium	410	410	24.9		47.9		26.2		56		57.8	
Beryllium	4.4	43	0.15	J	0.28	J	0.27	J	0.22	J	0.28	J
Cadmium	2.5	2.5	0.88	U	0.15	J	0.89	U	0.31	J	0.33	J
Calcium	NS	NS	7,100		15,400		889		4,600		5,860	
Chromium, Hexavalent	1	1	NR		NR		NR		NR		NR	
Chromium, Total	NS	NS	8.3		10.7		14.9		15.9		15.1	
Cobalt	NS	NS	3.6		4.2		4.9		4.6		5.8	
Copper	**50**	280	17.4		30.6		15.4		25.5		41.2	
Iron	NS	NS	7,990		12,000		11,300		9,250		10,900	
Lead	**63**	400	4.6		41.8		6.2		**72**		**131**	
Magnesium	NS	NS	5,350		4,760		2,280		4,030		3,870	
Manganese	1,600	2,000	164		169		210		443		270	
Mercury	**0.18**	0.3	0.025		**0.27**		0.018	U	0.079		0.11	
Nickel	30	320	7.4		10.3		11.3		11.4		12.9	
Potassium	NS	NS	1,010		580		875		746		878	
Selenium	3.9	110	1.1	U	0.2	J	0.12	J	0.16	J	0.2	J
Silver	2	110	0.35	U	0.091	J	0.36	U	0.084	J	0.3	J
Sodium	NS	NS	166		67.2	J	81	J	103		151	
Thallium	NS	NS	0.061	J	0.081	J	0.087	J	0.13	J	0.095	J
Vanadium	NS	NS	14.2		17.4		17.5		41.4		18.1	
Zinc	**109**	6,600	21.6		50.2		23.8		59.2		87.7	

Table 6B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Metals

		AKRF Sample ID	SB-15_0-2_20241211		SB-15_2-4_20241211	
		Lab Sample ID	460-317091-6		460-317091-7	
		Sample Date	12/11/2024		12/11/2024	
		Dilution Factor	1		1	
		Unit	mg/kg		mg/kg	
Compound	**UUSCO**	**RRSCO**	CONC	Q	CONC	Q
Aluminum	NS	NS	5,480		5,720	
Antimony	NS	NS	0.93	U	0.18	J
Arsenic	13	16	2.7		3.3	
Barium	410	410	43.5		57.8	
Beryllium	4.4	43	0.25	J	0.27	J
Cadmium	2.5	2.5	0.2	J	0.25	J
Calcium	NS	NS	4,540		3,950	
Chromium, Hexavalent	1	1	NR		NR	
Chromium, Total	NS	NS	17		13.8	
Cobalt	NS	NS	4.7		4.8	
Copper	**50**	280	21.9		29.1	
Iron	NS	NS	9,580		10,900	
Lead	**63**	400	49.6		**90**	
Magnesium	NS	NS	3,290		3,120	
Manganese	1,600	2,000	206		239	
Mercury	**0.18**	0.3	0.049		0.043	
Nickel	30	320	12.2		12	
Potassium	NS	NS	890		871	
Selenium	3.9	110	1.2	U	0.17	J
Silver	2	110	0.37	U	0.087	J
Sodium	NS	NS	165		184	
Thallium	NS	NS	0.067	J	0.08	J
Vanadium	NS	NS	16.2		19.5	
Zinc	**109**	6,600	55		**126**	

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-01_0-0.17_20260513		RI-SB-01_0-2_20260513		RI-SB-01_2-4_20260513		RI-SB-01_15-17_20260513		RI-SB-01_29.5-31.5_20260513		RI-DUP-04_20260513	
		Lab Sample ID	460-350979-1		460-350979-2		460-350979-3		460-350979-4		460-350979-5		460-350979-6	
		Sample Date	5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026		5/13/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.98	U	1	U	0.99	U	1	U	0.99	U	0.98	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2	U	0.73		0.55		0.2	U	0.2	U	0.56	J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.062	J	0.11	J	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-02_0-0.17_20260429	RI-SB-02_0-2_20260429	RI-SB-02_2-4_20260429	RI-SB-02_15-17_20260429	RI-SB-02_28-30_20260429	RI-SB-03_0-0.17_20260427
		Lab Sample ID	460-349970-16	460-349970-17	460-349970-18	460-349970-19	460-349970-20	460-349776-22
		Sample Date	4/29/2026	4/29/2026	4/29/2026	4/29/2026	4/29/2026	4/27/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.79 U	1.2 U	0.79 U	1.1 U	1.1 U	0.98 U
3-Perfluoropropyl propanoic acid	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
6:2 Fluorotelomer sulfonate	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorobutanoic acid	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorodecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorododecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoroheptanesulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoroheptanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorohexanesulfonic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorohexanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorononanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorooctanesulfonamide	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.63	0.2 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.16 U	0.24 U	0.13 J	0.11 J	0.44	0.33
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.16 U	0.24 U	0.16 U	0.29	0.22 U	0.2 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoropentanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorotetradecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluorotridecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Perfluoroundecanoic acid	NS	NS	0.16 U	0.24 U	0.16 U	0.22 U	0.22 U	0.2 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.32 U	0.48 U	0.32 U	0.44 U	0.44 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-03_0-2_20260427		RI-SB-03_2-4_20260427		RI-SB-03_15-17_20260427		RI-SB-03_28-30_20260427		RI-SB-04_0-0.17_20260427		RI-SB-04_0-2_20260427	
		Lab Sample ID	460-349776-23		460-349776-24		460-349776-25		460-349776-31		460-349776-26		460-349776-27	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.99	U	0.98	U	0.98	U	1	U	0.99	U	0.97	U
3-Perfluoropropyl propanoic acid	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
6:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorobutanoic acid	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorononanoic acid	NS	NS	0.2	U	0.15	J	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.11	J	0.13	J	0.2	U	0.1	J	0.31		0.27	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.093	J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4	U	0.39	U	0.39	U	0.4	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-04_2-4_20260427		RI-SB-04_15-17_20260427		RI-SB-04_28-30_20260427		RI-SB-05_0-0.17_20260501		RI-SB-05_0-2_20260501		RI-SB-05_2-4_20260501	
		Lab Sample ID	460-349776-28		460-349776-29		460-349776-30		460-350185-1		460-350185-2		460-350185-3	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		5/1/2026		5/1/2026		5/1/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.99	U	0.98	U	1	U	0.95	U	0.99	U	0.98	U
3-Perfluoropropyl propanoic acid	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.79		0.2	U	0.2	U	0.17	J	0.2		0.2	U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.29		0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4	U	0.39	U	0.4	U	0.38	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-05_15-17_20260511	RI-SB-05_28-30_20260511	RI-SB-06_0-0.17_20260429	RI-SB-06_0-2_20260429	RI-SB-06_2-4_20260429	RI-SB-06_15-17_20260429
		Lab Sample ID	460-350802-1	460-350802-2	460-349970-1	460-349970-2	460-349970-3	460-349970-4
		Sample Date	5/11/2026	5/11/2026	4/29/2026	4/29/2026	4/29/2026	4/29/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.98 U	0.99 U	0.98 U	0.98 U	0.98 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorononanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.2 U	0.27	0.15 J	0.15 J	0.2 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-06_29-31_20260429	RI-SB-07_0-0.17_20260428	RI-SB-07_0-2_20260428	RI-SB-07_2-4_20260428	RI-SB-07_15-17_20260428	RI-SB-07_33-35_20260428
		Lab Sample ID	460-349970-5	460-349867-1	460-349867-2	460-349867-3	460-349867-4	460-349867-5
		Sample Date	4/29/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.97 U	1 U	0.99 U	0.96 U	0.98 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.19 UJ	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorononanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.16 J	0.15 J	0.34	0.12 J	0.13 J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.12 J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.2 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.19 UJ	0.2 U	0.2 U	0.19 U	0.2 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.4 U	0.4 U	0.38 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-DUP-02_20260428	RI-SB-08_0-0.17_20260501	RI-SB-08_0-2_20260501	RI-SB-08_2-4_20260501	RI-SB-08_15-17_20260512	RI-SB-08_36-38_20260512
		Lab Sample ID	460-349867-6	460-350185-4	460-350185-5	460-350185-6	460-350894-1	460-350894-2
		Sample Date	4/28/2026	5/1/2026	5/1/2026	5/1/2026	5/12/2026	5/12/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.97 U	0.96 U	1 U	0.97 U	0.97 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.23	0.52	0.48	0.15 J	0.19 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.19 U	0.3	0.22	0.077 J	0.19 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-09_0-0.17_20260427		RI-SB-09_2-4_20260427		RI-SB-09_4-6_20260427		RI-SB-09_6-8_20260427		RI-SB-09_8-10_20260427		RI-SB-09_10-12_20260427	
		Lab Sample ID	460-349776-1		460-349776-2		460-349776-3		460-349776-4		460-349776-5		460-349776-6	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
3-Perfluoroheptyl propanoic acid	NS	NS	1	U	0.99	U	0.97	U	0.98	U	0.98	U	0.99	U
3-Perfluoropropyl propanoic acid	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
8:2 Fluorotelomer sulfonate	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.56		0.49		0.22		0.12	J	0.2	U	0.2	U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4	U	0.4	U	0.39	U	0.39	U	0.39	U	0.4	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-09_12-14_20260427	RI-SB-09_14-16_20260427	RI-SB-09_16-18_20260427	RI-SB-09_18-20_20260427	RI-SB-09_20-22_20260427	RI-SB-09_22-24_20260427
		Lab Sample ID	460-349776-7	460-349776-8	460-349776-9	460-349776-10	460-349776-11	460-349776-12
		Sample Date	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/27/2026	4/27/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.98 U	0.97 U	0.98 U	0.99 U	0.97 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorononanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19 U	0.11 J	0.19 U	0.069 J	0.2 U	0.19 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-09_24-26_20260427		RI-SB-09_26-28_20260427		RI-SB-09_28-30_20260427		RI-SB-09_30-32_20260427		RI-DUP-01_20260427		RI-SB-10_0-0.17_20260427	
		Lab Sample ID	460-349776-13		460-349776-14		460-349776-15		460-349776-16		460-349776-17		460-349776-18	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026		4/27/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.99	U	0.96	U	0.99	U	0.98	U	0.99	U	0.98	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.084	J
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.58	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.19	U	0.36		0.13	J	0.2	U	0.06	J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.38	U	0.4	U	0.39	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-10_4-6_20260427		RI-SB-10_6-8_20260427		RI-SB-10_8-10_20260427		RI-SB-11_0-0.17_20260428		RI-SB-11_0-2_20260428		RI-SB-11_2-4_20260428	
		Lab Sample ID	460-349776-19		460-349776-20		460-349776-21		460-349867-7		460-349867-8		460-349867-9	
		Sample Date	4/27/2026		4/27/2026		4/27/2026		4/28/2026		4/28/2026		4/28/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.98	U	0.99	U	1	U	0.96	U	1	U	0.97	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.9		0.2	U	0.19	U	0.2	U	0.19	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorodecanoic acid	NS	NS	0.12	U	1.5		0.084	J	0.19	U	0.2	U	0.19	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorododecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoroheptanoic acid	NS	NS	0.2	U	0.22		0.12	J	0.19	U	0.2	U	0.19	U
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorohexanoic acid	NS	NS	0.2	U	0.1	J	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorononanoic acid	NS	NS	0.2	U	0.8		0.22		0.19	U	0.2	U	0.19	U
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.25		0.2	U	0.15	J	0.2	U	0.19	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**1.57**		**2.34**		0.28		0.51		0.13	J	**1.02**	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.29		**1.54**		**1.04**		0.19	U	0.2	U	0.13	J
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoropentanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluorotridecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Perfluoroundecanoic acid	NS	NS	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-11_4-6_20260428	RI-SB-12_0-0.17_20260428	RI-SB-12_4-6_20260428	RI-SB-12_6-8_20260428	RI-SB-12_8-10_20260428	RI-SB-13_0-0.17_20260428
		Lab Sample ID	460-349867-10	460-349867-11	460-349867-12	460-349867-13	460-349867-14	460-349867-15
		Sample Date	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026	4/28/2026
		Dilution Factor	1	1	1	1	1	1
		Unit	ppb	ppb	ppb	ppb	ppb	ppb
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97 U	0.97 U	0.97 U	0.99 U	0.97 U	0.97 U
3-Perfluoropropyl propanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
6:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
8:2 Fluorotelomer sulfonate	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorobutanoic acid	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Perfluorodecanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorodecanoic acid	NS	NS	0.19 U	0.093 J	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorododecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanesulfonic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorohexanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorononanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonamide	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**1.63**	0.83	0.19	0.11 J	0.19 U	0.18 J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.37	0.08 J	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoropentanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotetradecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluorotridecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Perfluoroundecanoic acid	NS	NS	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Table 7A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-13_0-2_20260428		RI-SB-13_2-4_20260428		RI-SB-13_4-6_20260428		RI-SB-14_0-0.17_20260429		RI-SB-14_2-4_20260429		RI-SB-14_4-6_20260429	
		Lab Sample ID	460-349867-16		460-349867-17		460-349867-18		460-349970-6		460-349970-7		460-349970-8	
		Sample Date	4/28/2026		4/28/2026		4/28/2026		4/29/2026		4/29/2026		4/29/2026	
		Dilution Factor	1		1		1		1		1		1	
		Unit	ppb		ppb		ppb		ppb		ppb		ppb	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.97	U	0.99	U	0.97	U	0.98	U	0.99	U	0.99	U
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U
Perfluorodecanesulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.38		0.2	U	0.19	U	0.098	J	0.67		0.12	J
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.19	U	0.11	J	0.14	J	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotetradecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic acid	NS	NS	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.4	U	0.39	U	0.39	U	0.4	U	0.39	U

Table 7A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-14_15-17_20260429		RI-SB-15_0-0.17_20260429		RI-SB-15_2-4_20260429		RI-SB-15_4-6_20260429			
		Lab Sample ID	460-349970-9		460-349970-10		460-349970-11		460-349970-12			
		Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026			
		Dilution Factor	1		1		1		1			
		Unit	ppb		ppb		ppb		ppb			
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
3-Perfluoroheptyl propanoic acid	NS	NS	0.98	U	0.97	U	0.98	U	0.97	U	NR	
3-Perfluoropropyl propanoic acid	NS	NS	0.39	U	0.39	U	0.39	U	NR		0.77	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
6:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.39	U	0.39	U	NR	
8:2 Fluorotelomer sulfonate	NS	NS	0.39	U	0.39	U	0.39	U	0.39	U	NR	
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoro-3-methoxypropanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluorobutanoic acid	NS	NS	0.39	U	0.39	U	0.39	U	NR		0.77	U
Perfluorodecanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorodecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorododecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoroheptanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoroheptanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorohexanesulfonic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorohexanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorononanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorooctanesulfonamide	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2	U	0.098	J	0.33		0.21		NR	
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoropentanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	NR		0.38	U
Perfluorotetradecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluorotridecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Perfluoroundecanoic acid	NS	NS	0.2	U	0.19	U	0.2	U	0.19	U	NR	
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.39	U	0.39	U	0.39	U	0.39	U	NR	

Table 7A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-SB-15_15-17_20260429		RI-DUP-03_20260429	RI-FB-01_20260428	RI-FB-02_20260429
		Lab Sample ID	460-349970-13		460-349970-14	460-349867-19	460-349970-15
		Sample Date	4/29/2026		4/29/2026	4/28/2026	4/29/2026
		Dilution Factor	1		1	1	1
		Unit	ppb		ppb	ppt	ppt
Compound	**UUGV**	**RRGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99 U	NR	1 U	0.00747 U	0.00766 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.99 U	NR	1 U	0.00747 U	0.00766 U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.99 U	NR	1 U	0.00747 U	0.00766 U
3-Perfluoroheptyl propanoic acid	NS	NS	NR	1.91 U	1 U	0.00747 U	0.00766 U
3-Perfluoropropyl propanoic acid	NS	NS	NR	0.77 UJ	0.4 U	0.00299 U	0.00306 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
6:2 Fluorotelomer sulfonate	NS	NS	0.4 U	NR	0.4 U	0.00299 U	0.00306 U
8:2 Fluorotelomer sulfonate	NS	NS	0.4 U	NR	0.4 U	0.00299 U	0.00306 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro-3-methoxypropanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluoro-4-methoxybutanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorobutanoic acid	NS	NS	NR	0.77 U	0.4 U	0.00299 U	0.00306 U
Perfluorodecanesulfonic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorodecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorododecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoroheptanesulfonic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoroheptanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorohexanesulfonic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorohexanoic acid	NS	NS	NR	0.38 U	0.2 U	0.00149 U	0.00153 U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorononanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorooctanesulfonamide	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.2 U	NR	0.25 J	0.00149 U	0.00153 U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoropentanoic acid	NS	NS	NR	0.38 UJ	0.2 U	0.00149 U	0.00153 U
Perfluorotetradecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluorotridecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Perfluoroundecanoic acid	NS	NS	0.2 U	NR	0.2 U	0.00149 U	0.00153 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.4 U	NR	0.4 U	0.00299 U	0.00306 U

Table 7A
Ikos Senior Living
Queens, NY
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Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	RI-FB-03_20260501		RI-FB-04_20260512	
		Lab Sample ID	460-350185-7		460-350894-3	
		Sample Date	5/1/2026		5/12/2026	
		Dilution Factor	1		1	
		Unit	ppt		ppt	
Compound	**UUGV**	**RRGV**	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.00154	U	0.00135	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.00769	U	0.00677	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	0.00769	U	0.00677	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	0.00769	U	0.00677	U
3-Perfluoroheptyl propanoic acid	NS	NS	0.00769	U	0.00677	U
3-Perfluoropropyl propanoic acid	NS	NS	0.00308	U	0.00271	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.00154	U	0.00135	U
6:2 Fluorotelomer sulfonate	NS	NS	0.00308	U	0.00271	U
8:2 Fluorotelomer sulfonate	NS	NS	0.00308	U	0.00271	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.00154	U	0.00135	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.00154	U	0.00135	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.00154	U	0.00135	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.00154	U	0.00135	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.00154	U	0.00135	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.00154	U	0.00135	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.00154	U	0.00135	U
Perfluorobutanoic acid	NS	NS	0.00308	U	0.00271	U
Perfluorodecanesulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluorodecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.00154	U	0.00135	U
Perfluorododecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoroheptanesulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluoroheptanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorohexanesulfonic acid	NS	NS	0.00154	U	0.00135	U
Perfluorohexanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.00154	U	0.00135	U
Perfluorononanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorooctanesulfonamide	NS	NS	0.00154	U	0.00135	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	0.00154	U	0.00135	U
Perfluorooctanoic acid (PFOA)	**0.66**	33	0.00154	U	0.00135	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.00154	U	0.00135	U
Perfluoropentanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorotetradecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluorotridecanoic acid	NS	NS	0.00154	U	0.00135	U
Perfluoroundecanoic acid	NS	NS	0.00154	U	0.00135	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.00308	U	0.00271	U

Table 7B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

		AKRF Sample ID	SB-08_0-2_20241213	
		Lab Sample ID	460-317268-1	
		Sample Date	12/13/2024	
		Dilution Factor	1	
		Unit	ppb	
Compound	**UUGV**	**RRGV**	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	NS	0.73	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1.82	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	NS	1.82	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	NS	4.55	U
3-Perfluoroheptyl propanoic acid	NS	NS	4.55	U
3-Perfluoropropyl propanoic acid	NS	NS	0.91	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.73	U
6:2 Fluorotelomer sulfonate	NS	NS	0.73	U
8:2 Fluorotelomer sulfonate	NS	NS	0.73	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	NS	0.73	U
N-ethyl perfluoro-1-octanesulfonamide	NS	NS	0.18	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.18	U
N-methyl perfluoro-1-octanesulfonamide	NS	NS	0.18	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	NS	0.18	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	NS	0.36	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	NS	0.36	UJ
Perfluoro(2-Propoxypropanoic) Acid	NS	NS	0.73	U
Perfluoro-3-methoxypropanoic acid	NS	NS	0.36	U
Perfluoro-4-methoxybutanoic acid	NS	NS	0.36	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.18	U
Perfluorobutanoic acid	NS	NS	0.73	U
Perfluorodecanesulfonic acid	NS	NS	0.18	U
Perfluorodecanoic acid	NS	NS	0.18	U
Perfluorododecane sulfonate (PFDoDS)	NS	NS	0.18	U
Perfluorododecanoic acid	NS	NS	0.18	U
Perfluoroheptanesulfonic acid	NS	NS	0.18	U
Perfluoroheptanoic acid	NS	NS	0.18	U
Perfluorohexanesulfonic acid	NS	NS	0.18	U
Perfluorohexanoic acid	NS	NS	0.18	U
Perfluorononanesulfonic Acid (Pfns)	NS	NS	0.18	U
Perfluorononanoic acid	NS	NS	0.11	J
Perfluorooctanesulfonamide	NS	NS	0.18	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**2.17**	**J**
Perfluorooctanoic acid (PFOA)	0.66	33	0.18	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	NS	0.18	U
Perfluoropentanoic acid	NS	NS	0.36	U
Perfluorotetradecanoic acid	NS	NS	0.18	U
Perfluorotridecanoic acid	NS	NS	0.18	U
Perfluoroundecanoic acid	NS	NS	0.18	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	NS	0.73	U

Table 8A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of VOCs

	AKRF Sample ID	RI-MW-01D_20260520		RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05D_20260520		RI-MW-05S_20260520	
	Lab Sample ID	460-351476-2		460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351476-4		460-351469-2	
	Sample Date	5/20/2026		5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/20/2026	
	Dilution Factor	1		1		1		2		2		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	0.2	U	0.2	U	0.2	U	0.4	U	0.4	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,1,2-Trichloroethane	1	0.58	U	0.58	U	0.58	U	1.2	U	1.2	U	0.58	U	0.58	U
1,1-Dichloroethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2,3-Trichlorobenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dichloroethane	0.6	0.3	U	0.3	U	0.3	U	0.6	U	0.6	U	0.3	U	0.3	U
1,2-Dichloropropane	1	0.92	U	0.92	U	0.92	U	1.8	U	1.8	U	0.92	U	0.92	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	2	U	2	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1	U	2	U	2	U	1	U	1	U
2-Hexanone	50	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Acetone	50	5.1		5	U	5	U	10	U	10	U	5	U	5	U
Benzene	1	0.45	U	0.45	U	0.45	U	0.9	U	0.9	U	0.45	U	0.45	U
Bromochloromethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Bromodichloromethane	50	0.98	U	0.98	U	0.98	U	0.83	J	2	U	0.98	U	0.49	J
Bromoform	50	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Bromomethane	5	1	U	1.2	JK	1	U	2	U	2	U	1	U	1	U
Carbon Disulfide	60	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Chlorobenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Chloroform	**7**	**8.1**		6.3		6.1		**18**		6.9		3.6		**23**	
Chloromethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	1	U	1	U	**14**		**55**		**7**		1	U	**7.2**	
Cis-1,3-Dichloropropene	NS	0.45	U	0.45	U	0.45	U	0.9	U	0.9	U	0.45	U	0.45	U
Cyclohexane	NS	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Dibromochloromethane	50	0.78	U	0.78	U	0.78	U	1.6	U	1.6	U	0.78	U	0.78	U
Dichlorodifluoromethane	5	1	U	1	UJ	1	U	2	U	2	U	1	U	1	U
Ethylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
M,P-Xylenes	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Methyl Acetate	NS	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U	5	U	10	U	10	U	5	U	5	U
Methylcyclohexane	NS	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Methylene Chloride	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
N-Butylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
N-Propylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Styrene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
T-Butylbenzene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Tetrachloroethylene (PCE)	**5**	**22**		**43**		**350**		**860**		**600**		**12**		**120**	
Toluene	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U	1	U	2	U	2	U	1	U	0.59	J
Trans-1,3-Dichloropropene	NS	0.45	U	0.45	U	0.45	U	0.9	U	0.9	U	0.45	U	0.45	U
Trichloroethylene (TCE)	**5**	0.45		0.55		4.5		**49**		3.4		0.33		2.5	
Trichlorofluoromethane	5	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Vinyl Chloride	2	1	U	1	UJ	1	U	2	U	2	U	1	U	1	U
Xylenes, Total	NS	2	U	2	U	2	U	4	U	4	U	2	U	2	U

Table 8A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of VOCs

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513		TB_20260513		TB_20260520	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7		460-351008-8		460-351476-6	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	2		2		1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	0.4	U	0.4	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1.2	U	1.2	U	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U
1,1-Dichloroethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	3	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	0.6	U	0.6	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
1,2-Dichloropropane	1	1.8	U	1.8	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
1,3,5-Trimethylbenzene (Mesitylene)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	2	U	2	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	3	2	U	2	U	1	U	1	U	1	U	1	U	1	U
2-Hexanone	50	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Acetone	50	10	U	9.2	J	5	U	5	U	5	U	5	U	5	U
Benzene	1	0.9	U	0.9	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Bromochloromethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	50	0.73	J	2	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Bromoform	50	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Bromomethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Carbon Disulfide	60	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Chloroform	**7**	**9.8**		**9.2**		4		3.9		1	U	1	U	1	U
Chloromethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	**53**		**52**		**6.8**		1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	NS	0.9	U	0.9	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Cyclohexane	NS	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	50	1.6	U	1.6	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U
Dichlorodifluoromethane	5	2	U	2	U	1	U	1	UJ	1	U	1	U	1	U
Ethylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	NS	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	10	U	10	U	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
N-Butylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Styrene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	10	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	**5**	**480**		**480**		**160**		**15**		0.4	U	0.4	U	0.4	U
Toluene	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	5	4.4	J	2.1	J	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	0.9	U	0.9	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Trichloroethylene (TCE)	**5**	**12**		**12**		2.2		0.27	J	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	5	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	2	2	U	2	U	1	U	1	UJ	1	U	1	U	1	U
Xylenes, Total	NS	4	U	4	U	2	U	2	U	2	U	2	U	2	U

Table 8B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of VOCs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004		TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6		460-317271-1		460-317271-2		460-317271-3	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022		12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	1	U	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	50	50		5	U	5	U	5	U	5	U	5	U	5	U
Benzene	1	0.3	J	1	U	1	U	1	U	1	U	1	U	1	U
Bromochloromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	50	1	U	1	U	1	U	0.5	J	0.35	J	1	U	0.34	J
Bromoform	50	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromomethane	5	1	U	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U
Carbon Disulfide	60	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	**7**	1.6		2.4		2.7		**9.2**		2.9		3.9		1.7	
Chloromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	**14**		**6.7**		0.41	J	2.3		1	U	3.2		4.7	
Cis-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	50	1	U	1	U	1	U	1	U	0.48	J	1	U	0.47	J
Dichlorodifluoromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	9.4		5	U	5	U	5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
N-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Styrene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	**5**	**100**		**19**		**100**		**330**		**60**		**270**		**310**	
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethylene (TCE)	5	2.1		1	U	0.69	J	1.9		1	U	1.5		2.5	
Trichlorofluoromethane	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	2	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U

Table 8B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of VOCs

	AKRF Sample ID	TB_20221003		TB-01_20241213	
	Lab Sample ID	460-266752-10		460-317271-4	
	Sample Date	10/3/2022		12/13/2024	
	Dilution Factor	1		1	
	Unit	µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U
1,2,3-Trichlorobenzene	5	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U
1,2-Dichloropropane	1	1	UJ	1	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U
2-Hexanone	50	5	U	5	U
Acetone	50	5	U	5	U
Benzene	1	1	U	1	U
Bromochloromethane	5	1	U	1	U
Bromodichloromethane	50	1	U	1	U
Bromoform	50	1	U	1	U
Bromomethane	5	1	UJ	1	U
Carbon Disulfide	60	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U
Chlorobenzene	5	1	U	1	U
Chloroethane	5	1	U	1	U
Chloroform	**7**	1	U	1	U
Chloromethane	5	1	U	1	U
Cis-1,2-Dichloroethylene	**5**	1	U	1	U
Cis-1,3-Dichloropropene	NS	1	U	1	U
Cyclohexane	NS	1	U	1	U
Dibromochloromethane	50	1	U	1	U
Dichlorodifluoromethane	5	1	U	1	U
Ethylbenzene	5	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U
M,P-Xylenes	5	0.47	J	1	U
Methyl Acetate	NS	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U
Methylcyclohexane	NS	1	U	1	U
Methylene Chloride	5	0.32	J	1	U
N-Butylbenzene	5	1	U	1	U
N-Propylbenzene	5	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U
Styrene	5	1	U	1	U
T-Butylbenzene	5	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U
Tetrachloroethylene (PCE)	**5**	1	U	1	U
Toluene	5	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U
Trans-1,3-Dichloropropene	NS	1	U	1	U
Trichloroethylene (TCE)	5	1	U	1	U
Trichlorofluoromethane	5	1	U	1	U
Vinyl Chloride	2	1	U	1	U
Xylenes, Total	NS	2	U	2	U

Table 9A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520		RI-MW-06_20260513		RI-MW-X_20260513	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2		460-351008-3		460-351007-4	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dioxane (P-Dioxane)	0.35	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2,3,4,6-Tetrachlorophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	NS	3	U	3	U	3	U	3	U	3	U	3	U	3	U
2,4-Dichlorophenol	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	50	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrophenol	10	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
2,4-Dinitrotoluene	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Chloronaphthalene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylphenol (O-Cresol)	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
3- And 4- Methylphenol (Total)	NS	10	UJ	10	U	10	U	10	U	10	UJ	10	U	10	U
3,3'-Dichlorobenzidine	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4,6-Dinitro-2-Methylphenol	NS	20	U	20	U	20	U	20	U	20	U	20	U	20	U
4-Bromophenyl Phenyl Ether	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-Methylphenol	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl Phenyl Ether	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methylphenol (P-Cresol)	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Nitrophenol	NS	20	UJ	20	U	20	U	20	U	20	UJ	20	U	20	U
Acenaphthene	20	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetophenone	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Aniline	5	6	U	6	U	6	U	6	U	6	U	6	U	6	U
Anthracene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Atrazine	7.5	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Benzaldehyde	NS	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(a)Anthracene	0.002	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(a)Pyrene	ND	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Benzo(b)Fluoranthene	0.002	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Benzo(g,h,i)Perylene	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	0.002	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Benzyl Butyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Biphenyl (Diphenyl)	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethoxy) Methane	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bis(2-Chloroisopropyl) Ether	5	5	UJ	5	U	5	U	5	U	5	UJ	5	U	5	U
Bis(2-Ethylhexyl) Phthalate	5	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Caprolactam	NS	10	UJ	10	U	10	U	10	U	10	UJ	10	U	10	U
Carbazole	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chrysene	0.002	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Dibenz(a,h)Anthracene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibenzofuran	NS	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Diethyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dimethyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-N-Butyl Phthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-N-Octylphthalate	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluoranthene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluorene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	0.04	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene	5	5	UJ	5	U	5	U	5	U	5	UJ	5	U	5	U
Hexachloroethane	5	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-c,d)Pyrene	0.002	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Isophorone	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Nitrobenzene	0.4	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
N-Nitrosodi-N-Propylamine	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U
N-Nitrosodiphenylamine	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	NS	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Phenanthrene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Phenol	1	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pyrene	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U

Table 9A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	5	5	U	5	U	5	U
1,4-Dioxane (P-Dioxane)	0.35	0.2	U	0.2	U	0.2	U
2,3,4,6-Tetrachlorophenol	NS	10	U	10	U	10	U
2,4,5-Trichlorophenol	NS	10	U	10	U	10	U
2,4,6-Trichlorophenol	NS	3	U	3	U	3	U
2,4-Dichlorophenol	5	5	U	5	U	5	U
2,4-Dimethylphenol	50	1.6	U	1.6	U	1.6	U
2,4-Dinitrophenol	10	1.6	U	1.6	U	1.6	U
2,4-Dinitrotoluene	5	5	U	5	U	5	U
2,6-Dinitrotoluene	5	2	U	2	U	2	U
2-Chloronaphthalene	10	10	U	10	U	10	U
2-Chlorophenol	NS	10	U	10	U	10	U
2-Methylnaphthalene	NS	10	U	10	U	10	U
2-Methylphenol (O-Cresol)	NS	10	U	10	U	10	U
2-Nitroaniline	5	5	U	5	U	5	U
2-Nitrophenol	NS	10	U	10	U	10	U
3- And 4- Methylphenol (Total)	NS	10	U	10	UJ	10	U
3,3'-Dichlorobenzidine	5	5	U	5	U	5	U
3-Nitroaniline	5	5	U	5	U	5	U
4,6-Dinitro-2-Methylphenol	NS	20	U	20	U	20	U
4-Bromophenyl Phenyl Ether	NS	10	U	10	U	10	U
4-Chloro-3-Methylphenol	NS	10	U	10	U	10	U
4-Chloroaniline	5	5	U	5	U	5	U
4-Chlorophenyl Phenyl Ether	NS	10	U	10	U	10	U
4-Methylphenol (P-Cresol)	NS	10	U	10	U	10	U
4-Nitroaniline	5	5	U	5	U	5	U
4-Nitrophenol	NS	20	U	20	UJ	20	U
Acenaphthene	20	10	U	10	U	10	U
Acenaphthylene	NS	10	U	10	U	10	U
Acetophenone	NS	10	U	10	U	10	U
Aniline	5	6	U	6	U	6	U
Anthracene	50	10	U	10	U	10	U
Atrazine	7.5	2	U	2	U	2	U
Benzaldehyde	NS	10	UJ	10	UJ	10	UJ
Benzo(a)Anthracene	0.002	1	U	1	U	1	U
Benzo(a)Pyrene	ND	1	U	1	U	1	U
Benzo(b)Fluoranthene	0.002	2	U	2	U	2	U
Benzo(g,h,i)Perylene	NS	10	U	10	U	10	U
Benzo(k)Fluoranthene	0.002	1	U	1	U	1	U
Benzyl Butyl Phthalate	50	10	U	10	U	10	U
Biphenyl (Diphenyl)	5	5	U	5	U	5	U
Bis(2-Chloroethoxy) Methane	5	5	U	5	U	5	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1	U	1	U	1	U
Bis(2-Chloroisopropyl) Ether	5	5	U	5	UJ	5	U
Bis(2-Ethylhexyl) Phthalate	5	2	U	2	U	2	U
Caprolactam	NS	10	U	10	UJ	10	U
Carbazole	NS	10	U	10	U	10	U
Chrysene	0.002	2	U	2	U	2	U
Dibenz(a,h)Anthracene	NS	1	U	1	U	1	U
Dibenzofuran	NS	10	U	10	U	10	U
Diethyl Phthalate	50	10	U	10	U	10	U
Dimethyl Phthalate	50	10	U	10	U	10	U
Di-N-Butyl Phthalate	50	10	U	10	U	10	U
Di-N-Octylphthalate	50	10	U	10	U	10	U
Fluoranthene	50	10	U	10	U	10	U
Fluorene	50	10	U	10	U	10	U
Hexachlorobenzene	0.04	1	U	1	U	1	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene	5	5	U	5	UJ	5	U
Hexachloroethane	5	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-c,d)Pyrene	0.002	2	U	2	U	2	U
Isophorone	50	10	U	10	U	10	U
Naphthalene	10	2	U	2	U	2	U
Nitrobenzene	0.4	0.4	U	0.4	U	0.4	U
N-Nitrosodi-N-Propylamine	NS	1	U	1	U	1	U
N-Nitrosodiphenylamine	50	10	U	10	U	10	U
Pentachlorophenol	NS	20	U	20	U	20	U
Phenanthrene	50	10	U	10	U	10	U
Phenol	1	10	U	10	U	10	U
Pyrene	50	10	U	10	U	10	U

Table 9B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003			TW-03_20221004	TW-04_20221004	TW-08_20241213	TW-09_20241213	TW-10_20241213
	Lab Sample ID	460-266877-3		460-266752-9			460-266826-5	460-266826-6	460-317271-1	460-317271-2	460-317271-3
	Sample Date	10/5/2022		10/3/2022			10/4/2022	10/4/2022	12/13/2024	12/13/2024	12/13/2024
	Dilution Factor	1		1		5	1	1	1	1	1
	Unit	µg/L		µg/L		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	10	U	10	U	NR	10 U	10 U	0.1 J	0.2 U	0.13 J
2,3,4,6-Tetrachlorophenol	NS	10	UJ	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	10	40	UJ	40	U	NR	40 UJ	40 UJ	40 U	40 U	40 U
2,4-Dinitrotoluene	5	10	UJ	10	UJ	NR	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5	2	U	2	U	NR	2 U	2 U	2 U	2 U	2 U
2-Chloronaphthalene	10	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (O-Cresol)	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5	10	UJ	10	U	NR	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
3- And 4- Methylphenol (Total)	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10	U	10	U	NR	10 UJ	10 UJ	10 U	10 U	10 U
3-Nitroaniline	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20	U	20	U	NR	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (P-Cresol)	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	20	UJ	20	U	NR	20 U	20 U	20 U	20 U	20 U
Acenaphthene	20	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Acetophenone	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Atrazine	7.5	2	U	2	UJ	NR	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	NS	10	UJ	10	UJ	NR	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)Anthracene	**0.002**	**2.1**		1	U	NR	1 U	1 U	1 U	1 U	1 U
Benzo(a)Pyrene	**ND**	**1.6**		1	U	NR	1 U	1 U	1 U	1 U	1 U
Benzo(b)Fluoranthene	**0.002**	**2.2**		2	U	NR	2 U	2 U	2 U	2 U	2 U
Benzo(g,h,i)Perylene	NS	1.7	J	10	U	NR	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene	0.002	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Benzyl Butyl Phthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10	UJ	10	UJ	NR	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Bis(2-Ethylhexyl) Phthalate	**5**	**6.2**		2	U	NR	2 U	2 U	2 U	2 U	2 U
Caprolactam	NS	10	U	NR		98 D	10 U	10 U	18	21	16
Carbazole	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Chrysene	**0.002**	**2**		2	U	NR	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)Anthracene	NS	1	UJ	1	U	NR	1 UJ	1 UJ	1 U	1 U	1 U
Dibenzofuran	NS	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Diethyl Phthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	10	U	10	U	NR	10 U	10 U	8.9 J	6.5 J	4.4 J
Di-N-Octylphthalate	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	4	J	10	U	NR	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	0.5	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
Hexachlorocyclopentadiene	5	10	U	10	U	NR	10 UJ	10 UJ	10 U	10 U	10 U
Hexachloroethane	5	2	U	2	U	NR	2 U	2 U	2 U	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	**0.002**	**1.6**	**J**	2	UJ	NR	2 UJ	2 UJ	2 U	2 U	2 U
Isophorone	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	2	U	2	U	NR	2 U	2 U	2 U	2 U	2 U
Nitrobenzene	0.4	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1	U	1	U	NR	1 U	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	NS	20	U	20	U	NR	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	2.6	J	10	U	NR	10 U	10 U	10 U	10 U	10 U
Phenol	1	10	U	10	U	NR	10 U	10 U	10 U	10 U	10 U
Pyrene	50	3.4	J	10	U	NR	10 U	10 U	10 U	10 U	10 U

Table 10A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PCBs

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1221 (Aroclor 1221)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1232 (Aroclor 1232)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1242 (Aroclor 1242)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1248 (Aroclor 1248)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1254 (Aroclor 1254)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1260 (Aroclor 1260)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1262 (Aroclor 1262)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1268 (Aroclor 1268)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Total PCBs	0.09	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 10A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PCBs

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1221 (Aroclor 1221)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1232 (Aroclor 1232)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1242 (Aroclor 1242)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1248 (Aroclor 1248)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1254 (Aroclor 1254)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1260 (Aroclor 1260)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1262 (Aroclor 1262)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PCB-1268 (Aroclor 1268)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Total PCBs	0.09	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 10B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of PCBs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1221 (Aroclor 1221)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1232 (Aroclor 1232)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1242 (Aroclor 1242)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1248 (Aroclor 1248)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1254 (Aroclor 1254)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1260 (Aroclor 1260)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1262 (Aroclor 1262)	NS	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1268 (Aroclor 1268)	NS	0.4	U	0.4	U	0.4	U	0.4	U
Total PCBs	0.09	0.4	U	0.4	U	0.4	U	0.4	U

Table 10B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of PCBs

AKRF Sample ID		TW-08_20241213		TW-09_20241213		TW-10_20241213	
Lab Sample ID		460-317271-1		460-317271-2		460-317271-3	
Sample Date		12/13/2024		12/13/2024		12/13/2024	
Dilution Factor		1		1		1	
Unit		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
PCB-1016 (Aroclor 1016)	NS	0.4	U	0.4	U	0.4	U
PCB-1221 (Aroclor 1221)	NS	0.4	U	0.4	U	0.4	U
PCB-1232 (Aroclor 1232)	NS	0.4	U	0.4	U	0.4	U
PCB-1242 (Aroclor 1242)	NS	0.4	U	0.4	U	0.4	U
PCB-1248 (Aroclor 1248)	NS	0.4	U	0.4	U	0.4	U
PCB-1254 (Aroclor 1254)	NS	0.4	U	0.4	U	0.4	U
PCB-1260 (Aroclor 1260)	NS	0.4	U	0.4	U	0.4	U
PCB-1262 (Aroclor 1262)	NS	0.4	U	0.4	U	0.4	U
PCB-1268 (Aroclor 1268)	NS	0.4	U	0.4	U	0.4	U
Total PCBs	0.09	0.4	U	0.4	U	0.4	U

Table 11A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Table 11A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Table 11B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.5	U	0.5	U	0.5	U	0.5	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U	0.5	U

Table 11B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Pesticides

	AKRF Sample ID	TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-317271-1		460-317271-2		460-317271-3	
	Sample Date	12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
Aldrin	ND	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U
Chlordane (Technical)	NS	0.5	U	0.5	U	0.5	U
Chlordane, cis-	NS	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02	U	0.02	U	0.02	U
Dieldrin	0.004	0.02	U	0.02	U	0.02	U
Endosulfan I	NS	0.02	U	0.02	U	0.02	U
Endosulfan II	NS	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	NS	0.02	U	0.02	U	0.02	U
Endosulfans ABS	NS	0	U	0	U	0	U
Endrin	ND	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	5	0.02	U	0.02	U	0.02	U
Endrin Ketone	5	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	0.05	0.02	U	0.02	U	0.02	U
Heptachlor	0.04	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	0.03	0.02	U	0.02	U	0.02	U
Methoxychlor	35	0.02	U	0.02	U	0.02	U
P,P'-DDD	0.3	0.02	U	0.02	U	0.02	U
P,P'-DDE	0.2	0.02	U	0.02	U	0.02	U
P,P'-DDT	0.2	0.02	U	0.02	U	0.02	U
Toxaphene	0.06	0.5	U	0.5	U	0.5	U

Table 12A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Total Metals

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	81.7		40	U	28.1	J	460		60.1	
Antimony	3	2	U	2	U	2	U	2	U	0.57	J
Arsenic	25	0.78	J	2	U	2	U	2	U	0.56	J
Barium	1,000	126		101		51.1		117		80.5	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	92,600		86,600		80,200		89,000		49,400	
Chromium, Total	50	4	U	1.9	J	4	U	4.3		4	U
Cobalt	NS	1.2	J	2	U	0.57	J	0.99	J	0.61	J
Copper	200	2.4	J	4	U	2.1	J	2	J	2.2	J
Iron	**300**	162		120	U	41.4	J	**839**		148	
Lead	25	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	**40,100**		33,100		20,800		33,300		15,900	
Manganese	**300**	209		13.5		274		43.1		**408**	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	1.4	J	4	U	4	U	1.6	J	2	J
Potassium	NS	6,300		3,000		2,100		2,970		4,230	
Selenium	10	2.2	J	2.4	J	1	J	2.2	J	1.9	J
Silver	50	2	U	2	U	2	U	2	U	2	U
Sodium	**20,000**	**123,000**		**151,000**		**32,800**		**165,000**		**103,000**	
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	1.3	J	4	U	4	U	1.7	J	4	U
Zinc	2,000	16	U	16	U	16	U	16	U	11.2	J

Table 12A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Total Metals

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	60		40	U	964		95.9		40	U
Antimony	3	2	U	2	U	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U	2	U	2	U
Barium	1,000	82.7		87.1		203		95.3		4	U
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	66,900		71,400		99,900		92,800		500	U
Chromium, Total	50	2.5	J	1.9	J	8.2		4	U	4	U
Cobalt	NS	0.53	J	0.41	J	0.96	J	1	J	2	U
Copper	200	4	U	4	U	3.7	J	2	J	4	U
Iron	**300**	127		120	U	**1,670**		**393**		120	U
Lead	25	1.2	U	1.2	U	1.2		1.2	U	1.2	U
Magnesium	**35,000**	24,200		25,400		25,200		**43,000**		200	U
Manganese	**300**	26.3		23.7		46.2		241		8	U
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	3.1	J	4	U	2.2	J	1.9	J	4	U
Potassium	NS	3,910		4,020		5,360		6,730		200	U
Selenium	10	2.7		2.6		2.4	J	2.5	U	2.5	U
Silver	50	2	U	2	U	2	U	2	U	2	U
Sodium	**20,000**	**147,000**		**158,000**		**169,000**		**106,000**		500	U
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	1	J	4	U	3.5	J	1.2	J	4	U
Zinc	2,000	16	U	16	U	6.6	J	4.5	J	16	U

Table 12B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Total Metals

AKRF Sample ID		TW-01_20221005				TW-02_20221003		TW-03_20221004		TW-04_20221004	
Lab Sample ID		460-266877-3				460-266752-9		460-266826-5		460-266826-6	
Sample Date		10/5/2022				10/3/2022		10/4/2022		10/4/2022	
Dilution Factor		1		5		1		1		1	
Unit		µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	NR		294,000		21.1	J	771		2,320	
Antimony	3	1.9	J	NR		2	U	2	U	2	U
Arsenic	**25**	**63.9**		NR		2	U	2	U	2	U
Barium	**1,000**	**3,540**		NR		103		140		171	
Beryllium	**3**	**14.2**		NR		0.8	U	0.8	U	0.16	J
Cadmium	5	5		NR		2	U	2	U	2	U
Calcium	NS	NR		913,000		88,000		116,000		88,700	
Chromium, Total	**50**	**3,390**		NR		4	U	5.5		14.6	
Cobalt	NS	325		NR		1.7	J	1.6	J	3.3	J
Copper	**200**	**1,340**		NR		4	U	3.7	J	8.6	
Iron	**300**	NR		**971,000**		120	U	**1,660**		**4,430**	
Lead	**25**	**857**		NR		1.2	U	2.7		1.6	
Magnesium	**35,000**	**355,000**		NR		33,700		**47,500**		33,100	
Manganese	**300**	NR		**24,600**		**439**		261		**1,090**	
Mercury	**0.7**	**1.7**		NR		0.2	U	0.2	U	0.2	U
Nickel	**100**	**922**		NR		4.3		4.3		11.7	
Potassium	NS	66,400		NR		3,480		5,380		8,380	
Selenium	10	1.5	J	NR		3.1		2.8		0.78	J
Silver	50	2.5		NR		2	U	2	U	2	U
Sodium	**20,000**	**74,600**		NR		**140,000**		**128,000**		**109,000**	
Thallium	**0.5**	**5.1**		NR		0.8	U	0.8	U	0.8	U
Vanadium	NS	707		NR		4	U	3.2	J	7.1	
Zinc	**2,000**	**2,640**		NR		16	U	6.7	J	11.9	J

Table 12B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Total Metals

	AKRF Sample ID	TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-317271-1		460-317271-2		460-317271-3	
	Sample Date	12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	98,100		311,000		134,000	
Antimony	3	0.69	J	2.2	J	0.71	J
Arsenic	**25**	23		**73.3**		**28.6**	
Barium	**1,000**	**1,620**		**4,580**		**1,700**	
Beryllium	**3**	**4.6**		**14**		**6.6**	
Cadmium	5	1.9	J	4		2.9	
Calcium	NS	532,000		585,000		780,000	
Chromium, Total	**50**	**303**		**1,350**		**429**	
Cobalt	NS	162		311		175	
Copper	**200**	**319**		**1,000**		**419**	
Iron	**300**	**185,000**		**667,000**		**292,000**	
Lead	**25**	**88.4**		**707**		**113**	
Magnesium	**35,000**	**164,000**		**370,000**		**295,000**	
Manganese	**300**	**9,530**		**18,400**		**7,990**	
Mercury	**0.7**	0.35		**1.1**		0.11	J
Nickel	**100**	**270**		**814**		**303**	
Potassium	NS	34,900		111,000		40,300	
Selenium	10	2.5		4	J	2.6	
Silver	50	2	U	4	U	2	U
Sodium	**20,000**	**82,900**		**122,000**		**123,000**	
Thallium	**0.5**	**0.61**	**J**	**1.6**		**0.75**	**J**
Vanadium	NS	304		913		427	
Zinc	**2,000**	596		**2,040**		826	

Table 13A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	40	U	30.9	J	40	U	40	U	15.7	J
Antimony	3	2	U	2	U	2	U	2	U	0.6	J
Arsenic	25	0.5	J	2	U	2	U	2	U	0.57	J
Barium	1,000	128		105		50.1		109		84.3	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	90,900		86,600		78,000		86,200		51,700	
Chromium, Total	50	4	U	4	U	4	U	4	U	4	U
Cobalt	NS	1	J	2	U	0.5	J	0.35	J	0.56	J
Copper	200	4	U	4	U	4	U	4	U	4	U
Iron	300	120	U	35.2	J	120	U	120	U	52.8	J
Lead	25	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	**38,700**		32,800		20,200		32,000		16,100	
Manganese	**300**	213		16.6		267		20		**418**	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	4	U	4	U	4	U	4	U	4	U
Potassium	NS	6,120		2,920		2,010		2,760		4,190	
Selenium	10	1.9	J	2.5		0.91	J	2	J	2	J
Silver	50	2	U	2	U	2	U	2	U	2	U
Sodium	**20,000**	**119,000**		**150,000**		**31,700**		**160,000**		**103,000**	
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	4	U	4	U	4	U	4	U	4	U
Zinc	2,000	16	U	16	U	16	U	16	U	8.9	J

Table 13A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	17.4	J	17.2	J	40	U	13	J
Antimony	3	2	U	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U	2	U
Barium	1,000	86.5		92.6		194		95.4	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	0.92	U	0.92	U	0.92	U	0.92	U
Calcium	NS	70,600		72,900		97,100		89,600	
Chromium, Total	50	4	U	1.7	J	3	J	4	U
Cobalt	NS	0.39	J	0.37	J	2	U	1	J
Copper	200	4	U	4	U	4	U	4	U
Iron	300	120	U	120	U	120	U	145	
Lead	25	1.2	U	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	25,300		25,800		23,700		**41,400**	
Manganese	**300**	23.8		28.3		11.7		249	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	1.4	J	4	U	4	U	4	U
Potassium	NS	4,000		4,080		4,950		6,670	
Selenium	10	2.7		3.1		2.6		2.5	U
Silver	50	2	U	2	U	2	U	2	U
Sodium	**20,000**	**158,000**		**168,000**		**164,000**		**99,700**	
Thallium	0.5	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NS	4	U	4	U	4	U	4	U
Zinc	2,000	16	U	16	U	16	U	16	U

Table 13B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
	Lab Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6	
	Sample Date	10/5/2022		10/3/2022		10/4/2022		10/4/2022	
	Dilution Factor	1		1		1		1	
	Unit	µg/L		µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	40	U	40	U	233		797	
Antimony	3	1.9	J	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U	2	U
Barium	1,000	16.3		107		125		147	
Beryllium	3	0.8	U	0.8	U	0.8	U	0.8	U
Cadmium	5	2	U	2	U	2	U	2	U
Calcium	NS	19,500		88,300		106,000		82,600	
Chromium, Total	50	4	U	4	U	4	U	3.9	J
Cobalt	NS	0.91	J	1.7	J	1.1	J	2.5	J
Copper	200	4	U	4	U	2.5	J	4.9	
Iron	**300**	120	U	120	U	**492**		**1,630**	
Lead	25	1.2	U	1.2	U	3.8		1.1	J
Magnesium	**35,000**	4,050		34,500		**45,900**		30,400	
Manganese	**300**	185		**450**		216		**1,020**	
Mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	100	9.9		3.9	J	2.4	J	4.9	
Potassium	NS	4,310		3,590		4,950		7,610	
Selenium	10	2.5	U	2.9		2.2	J	0.85	J
Silver	50	2	U	2	U	2	U	2	U
Sodium	**20,000**	**35,300**		**141,000**		**127,000**		**107,000**	
Thallium	0.5	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium	NS	4	U	4	U	2	J	2.8	J
Zinc	2,000	16	U	16	U	16	U	16	U

Table 13B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Groundwater Analytical Results of Dissolved Metals

	AKRF Sample ID	TW-08_20241213		TW-09_20241213		TW-10_20241213	
	Lab Sample ID	460-317271-1		460-317271-2		460-317271-3	
	Sample Date	12/13/2024		12/13/2024		12/13/2024	
	Dilution Factor	1		1		1	
	Unit	µg/L		µg/L		µg/L	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q
Aluminum	NS	40	U	29.7	J	40	U
Antimony	3	2	U	2	U	2	U
Arsenic	25	2	U	2	U	2	U
Barium	1,000	57.6		62.9		65.3	
Beryllium	3	0.8	U	0.8	U	0.8	U
Cadmium	5	2	U	2	U	2	U
Calcium	NS	57,900		92,700		47,500	
Chromium, Total	50	4	U	4	U	4	U
Cobalt	NS	2.4	J	4.8		1.5	J
Copper	200	4.6		2.6	J	5.1	
Iron	**300**	120	U	69.7	J	120	U
Lead	25	1.2	U	1.2	U	1.2	U
Magnesium	**35,000**	22,700		33,900		11,000	
Manganese	**300**	69		**412**		44.9	
Mercury	0.7	0.2	U	0.2	U	0.2	U
Nickel	100	1.7	J	4.8		3.1	J
Potassium	NS	5,100		4,910		4,780	
Selenium	10	1.6	J	2.2	J	1.3	J
Silver	50	2	U	2	U	2	U
Sodium	**20,000**	**87,500**		**134,000**		**97,700**	
Thallium	0.5	0.8	U	0.8	U	0.8	U
Vanadium	NS	4	U	4	U	4	U
Zinc	2,000	16	U	16	U	11.3	J

Table 14
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PFAS

	AKRF Sample ID	RI-MW-01S_20260520		RI-MW-02_20260513		RI-MW-03_20260513		RI-MW-04_20260513		RI-MW-05S_20260520	
	Lab Sample ID	460-351469-1		460-351007-1		460-351008-6		460-351008-2		460-351469-2	
	Sample Date	5/20/2026		5/13/2026		5/13/2026		5/13/2026		5/20/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	ppt		ppt		ppt		ppt		ppt	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
3-Perfluoroheptyl propanoic acid	NS	6.89	U	7.3	U	7.21	U	8.06	U	6.73	U
3-Perfluoropropyl propanoic acid	NS	2.76	U	2.92	U	2.88	U	3.22	U	2.69	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
6:2 Fluorotelomer sulfonate	NS	1.98	J	2.53	J	1.09	J	1.64	J	2.69	U
8:2 Fluorotelomer sulfonate	NS	2.76	U	2.92	U	2.88	U	3.22	U	2.69	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-ethyl perfluoro-1-octanesulfonamide	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-methyl perfluoro-1-octanesulfonamide	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro(2-Propoxypropanoic) Acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro-3-methoxypropanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoro-4-methoxybutanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorobutanesulfonic acid (PFBS)	NS	6.19		7.21		2.9		6.92		2.95	
Perfluorobutanoic acid	NS	11.1		14.7		2.88	U	15.3		7.31	
Perfluorodecanesulfonic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorodecanoic acid	NS	1.38	U	1.46	U	0.72	J	1.61	U	1.35	U
Perfluorododecane sulfonate (PFDoDS)	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorododecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoroheptanesulfonic acid	NS	1.38	U	0.42	J	1.44	U	0.5	J	0.49	J
Perfluoroheptanoic acid	NS	10.4		12.1		6.08		13.2		4.57	
Perfluorohexanesulfonic acid	NS	11.1		9.74		5.86		9.79		3.75	
Perfluorohexanoic acid	NS	17.2		23		9.45		24		8.13	
Perfluorononanesulfonic Acid (Pfns)	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorononanoic acid	NS	0.7	J	1.67		3.31		1.46	J	4.6	
Perfluorooctanesulfonamide	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorooctanesulfonic acid (PFOS)	**2.7**	**11.3**		**14**		**13.4**		**13.5**		**11.8**	
Perfluorooctanoic acid (PFOA)	**6.7**	**36.8**		**40.7**		**23**		**39.9**		**24**	
Perfluoropentanesulfonic Acid (Pfpes)	NS	1.14	J	0.82	J	0.47	J	0.81	J	1.35	U
Perfluoropentanoic acid	NS	21.8		27.3		11.1		29.4		10.9	
Perfluorotetradecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluorotridecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Perfluoroundecanoic acid	NS	1.38	U	1.46	U	1.44	U	1.61	U	1.35	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	2.76	U	2.92	U	2.88	U	3.22	U	2.69	U

Table 14
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Groundwater Analytical Results of PFAS

	AKRF Sample ID	RI-MW-06_20260513		RI-MW-X_20260513		RI-MW-07_20260513		RI-MW-08S_20260520		FB_20260513	
	Lab Sample ID	460-351008-3		460-351007-4		460-351008-5		460-351476-5		460-351008-7	
	Sample Date	5/13/2026		5/13/2026		5/13/2026		5/20/2026		5/13/2026	
	Dilution Factor	1		1		1		1		1	
	Unit	ppt		ppt		ppt		ppt		ppt	
Compound	**AWQSGVs**	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
2H,2H,3H,3H-Perfluorooctanoic acid	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
3-Perfluoroheptyl propanoic acid	NS	8.67	U	7.02	U	7.58	U	7.41	U	8.39	U
3-Perfluoropropyl propanoic acid	NS	3.47	U	2.81	U	3.03	U	2.96	U	3.35	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
6:2 Fluorotelomer sulfonate	NS	3.47	U	2.81	U	16.8		2.46	J	3.35	U
8:2 Fluorotelomer sulfonate	NS	3.47	U	2.81	U	3.03	U	2.96	U	3.35	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-ethyl perfluoro-1-octanesulfonamide	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-ethyl perfluorooctanesulfonamidoacetic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-methyl perfluoro-1-octanesulfonamide	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
N-methyl perfluorooctanesulfonamidoacetic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Nonafluoro-3,6-dioxaheptanoic acid	NS	1.73	U	0.37	J	1.52	U	1.48	U	1.68	U
Perfluoro(2-ethoxyethane)sulfonic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoro(2-Propoxypropanoic) Acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoro-3-methoxypropanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoro-4-methoxybutanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorobutanesulfonic acid (PFBS)	NS	2.56	J	4.9	J	5.67		5.38		1.68	U
Perfluorobutanoic acid	NS	5.32	J	8.94	J	11.6		9.53		3.35	U
Perfluorodecanesulfonic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorodecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorododecane sulfonate (PFDoDS)	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorododecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoroheptanesulfonic acid	NS	1.73	U	0.37	J	1.52	U	1.48	U	1.68	U
Perfluoroheptanoic acid	NS	6.18	J	11.1	J	11		8.64		1.68	U
Perfluorohexanesulfonic acid	NS	5.82	J	9.43	J	8.25		8.61		1.68	U
Perfluorohexanoic acid	NS	10.4	J	17.4	J	19.7		13.9		1.68	U
Perfluorononanesulfonic Acid (Pfns)	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorononanoic acid	NS	0.98	J	1.27	J	0.93	J	0.66	J	1.68	U
Perfluorooctanesulfonamide	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorooctanesulfonic acid (PFOS)	**2.7**	**5.75**	**J**	**10.5**	**J**	**7.29**		**8.28**		1.68	U
Perfluorooctanoic acid (PFOA)	**6.7**	**24.8**	**J**	**43.9**	**J**	**33.7**		**32.3**		1.68	U
Perfluoropentanesulfonic Acid (Pfpes)	NS	0.64	J	0.91	J	0.87	J	1.01	J	1.68	U
Perfluoropentanoic acid	NS	12.1	J	19.3	J	20.4		17.2		1.68	U
Perfluorotetradecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluorotridecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Perfluoroundecanoic acid	NS	1.73	U	1.4	U	1.52	U	1.48	U	1.68	U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	NS	3.47	U	2.81	U	3.03	U	2.96	U	3.35	U

Table 15A
Ikos Senior Living
Queens, NY
2026 Remedial Investigation
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	RI-SV-01_20260429		RI-SV-02_20260429		RI-SV-03_20260429		RI-SV-04_20260429		RI-SV-05_20260429	
Lab Sample ID	460-350202-1		460-350202-2		460-350202-3		460-350202-4		460-350202-5	
Sample Date	4/29/2026		4/29/2026		4/29/2026		4/29/2026		4/29/2026	
Dilution Factor	1		4	20	40		10	40	1	4
Unit	µg/m³		µg/m³	µg/m³	µg/m³		µg/m³	µg/m³	µg/m³	µg/m³
Compound	CONC	Q	CONC	Q CONC Q	CONC	Q	CONC	Q CONC Q	CONC	Q CONC Q
1,1,1-Trichloroethane	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
1,1,2,2-Tetrachloroethane	1.4	U	5.5	U NR	55	U	14	U NR	1.4	U NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	1.5	U	6.1	U NR	61	U	15	U NR	1.5	U NR
1,1,2-Trichloroethane	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
1,1-Dichloroethane	0.81	U	3.2	U NR	32	U	8.1	U NR	0.81	U NR
1,1-Dichloroethene	0.2	U	0.8	U NR	8	U	2	U NR	0.2	U NR
1,2,4-Trichlorobenzene	3.7	U	15	U NR	150	U	37	U NR	3.7	U NR
1,2,4-Trimethylbenzene	0.98	U	3.7	J NR	39	U	9.8	U NR	0.98	U NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5	U	6.2	U NR	62	U	15	U NR	1.5	U NR
1,2-Dichlorobenzene	1.2	U	4.8	U NR	48	U	12	U NR	1.2	U NR
1,2-Dichloroethane	0.81	U	3.2	U NR	32	U	8.1	U NR	0.81	U NR
1,2-Dichloropropane	0.92	U	3.7	U NR	37	U	9.2	U NR	0.92	U NR
1,2-Dichlorotetrafluoroethane	1.4	U	5.6	U NR	56	U	14	U NR	1.4	U NR
1,3,5-Trimethylbenzene (Mesitylene)	0.98	U	3.9	U NR	39	U	9.8	U NR	0.98	U NR
1,3-Butadiene	0.4	J	8.9	NR	18	U	10	NR	0.55	NR
1,3-Dichlorobenzene	1.2	U	4.2	J NR	48	U	12	U NR	1.2	U NR
1,4-Dichlorobenzene	1.2	U	4.8	U NR	48	U	12	U NR	1.2	U NR
1,4-Dioxane (P-Dioxane)	18	U	72	U NR	720	U	180	U NR	18	U NR
2,2,4-Trimethylpentane	0.93	U	13	NR	37	U	10	NR	0.93	U NR
2-Chlorotoluene	1	U	4.2	U NR	42	U	10	U NR	1	U NR
2-Hexanone	2.1	U	4.2	J NR	82	U	21	U NR	2.1	U NR
4-Ethyltoluene	0.98	U	3.9	U NR	39	U	9.8	U NR	0.98	U NR
Acetone	33		170	NR	350	J	430	NR	NR	190 D
Allyl Chloride (3-Chloropropene)	1.6	U	6.3	U NR	63	U	16	U NR	1.6	U NR
Benzene	0.19	J	10	NR	10	J	6.5	NR	1.1	NR
Benzyl Chloride	1	U	4.2	U NR	42	U	10	U NR	1	U NR
Bromodichloromethane	0.73	J	5.4	U NR	54	U	13	U NR	1.3	U NR
Bromoform	2.1	U	8.3	U NR	83	U	21	U NR	2.1	U NR
Bromomethane	0.78	U	3.1	U NR	31	U	7.8	U NR	0.78	U NR
Butane	3.4		30	NR	21	J	22	NR	3.6	NR
Carbon Disulfide	1.6		4.3	J NR	62	U	110	NR	0.95	J NR
Carbon Tetrachloride	0.2	U	0.8	U NR	8	U	2	U NR	0.2	U NR
Chlorobenzene	0.92	U	3.7	U NR	37	U	9.2	U NR	0.92	U NR
Chlorodifluoromethane	1.8	U	7.1	U NR	71	U	18	U NR	1.8	U NR
Chloroethane	1.3	U	5.3	U NR	53	U	13	U NR	1.3	U NR
Chloroform	130		100	NR	270		59	NR	13	NR
Chloromethane	1	U	4.1	U NR	41	U	10	U NR	1	U NR
Cis-1,2-Dichloroethylene	51		970	NR	2,500		270	NR	52	NR
Cis-1,3-Dichloropropene	0.91	U	3.6	U NR	36	U	9.1	U NR	0.91	U NR
Cyclohexane	0.69	U	5.6	NR	28	U	4.2	J NR	0.89	NR
Cymene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
Dibromochloromethane	1.7	U	6.8	U NR	68	U	17	U NR	1.7	U NR
Dichlorodifluoromethane	2	J	9.9	U NR	99	U	25	U NR	1.9	J NR
Ethylbenzene	0.87	U	16	NR	47		19	NR	0.87	U NR
Hexachlorobutadiene	2.1	U	8.5	U NR	85	U	21	U NR	2.1	U NR
Isopropanol	12	U	88	NR	490	U	120	U NR	110	NR
Isopropylbenzene (Cumene)	0.98	U	3.9	U NR	39	U	11	NR	0.98	U NR
M,P-Xylenes	2.2	U	57	NR	150		32	NR	2.2	U NR
Methyl Ethyl Ketone (2-Butanone)	1.5	U	36	NR	59	U	77	NR	5.1	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.1	U	2.5	J NR	82	U	7.6	J NR	2.1	U NR
Methyl Methacrylate	2.1	U	8.2	U NR	82	U	21	U NR	2.1	U NR
Methylene Chloride	1.7	U	7	U NR	70	U	7.3	J NR	1.7	U NR
Naphthalene	2	U	8	U NR	80	U	20	U NR	2	U NR
N-Butylbenzene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
N-Heptane	0.82	U	17	NR	24	J	19	NR	0.82	U NR
N-Hexane	1.8	U	13	NR	23	J	17	J NR	0.7	J NR
N-Propylbenzene	0.98	U	3.9	U NR	39	U	9.8	U NR	0.98	U NR
O-Xylene (1,2-Dimethylbenzene)	0.87	U	13	NR	38		16	NR	0.87	U NR
Sec-Butylbenzene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
Styrene	0.85	U	3.4	U NR	34	U	8.5	U NR	0.85	U NR
T-Butylbenzene	1.1	U	4.4	U NR	44	U	11	U NR	1.1	U NR
Tert-Butyl Alcohol	15	U	31	J NR	610	U	150	U NR	21	NR
Tert-Butyl Methyl Ether	0.72	U	2.9	U NR	29	U	7.2	U NR	0.72	U NR
Tetrachloroethylene (PCE)	380		NR	3,200 D	12,000		NR	7,200 D	210	NR
Tetrahydrofuran	15	U	66	NR	590	U	150	U NR	15	U NR
Toluene	0.75	U	54	NR	120		18	NR	1.1	NR
Trans-1,2-Dichloroethene	0.79	U	7.7	NR	20	J	7.9	U NR	0.79	U NR
Trans-1,3-Dichloropropene	0.91	U	3.6	U NR	36	U	9.1	U NR	0.91	U NR
Trichloroethylene (TCE)	25		160	NR	590		240	NR	24	NR
Trichlorofluoromethane	1.6		2.2	J NR	45	U	11	U NR	1.1	NR
Vinyl Bromide	0.88	U	3.5	U NR	35	U	8.8	U NR	0.88	U NR
Vinyl Chloride	0.2	U	0.8	U NR	8	U	2	U NR	0.2	U NR

Table 15B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	SV-01_20221004		SV-02_20221003		SV-03_20221004	SV-04_20221003	
Lab Sample ID	200-65197-1		200-65184-1		200-65197-2	200-65184-2	
Sample Date	10/4/2022		10/3/2022		10/4/2022	10/3/2022	
Dilution Factor	1	6.14	1	2	1	1	10
Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Compound	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1,2,2-Tetrachloroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.48 J	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,1,2-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,1-Dichloroethene	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR
1,2,4-Trichlorobenzene	3.7 U	NR	3.7 U	NR	3.7 U	3.7 U	NR
1,2,4-Trimethylbenzene	1.7	NR	1.8	NR	1.6	2.1	NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,2-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
1,2-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,2-Dichloropropane	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
1,2-Dichlorotetrafluoroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,3,5-Trimethylbenzene (Mesitylene)	0.33 J	NR	0.45 J	NR	0.39 J	0.49 J	NR
1,3-Butadiene	3.6	NR	1.6	NR	2.6	3.9	NR
1,3-Dichlorobenzene	1.9	NR	1.6	NR	1.5	2.2	NR
1,4-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
1,4-Dioxane (P-Dioxane)	18 U	NR	18 U	NR	18 U	18 U	NR
2,2,4-Trimethylpentane	1.2	NR	1.5	NR	3.3	1.2	NR
2-Chlorotoluene	1 U	NR	1 U	NR	1 U	1 U	NR
2-Hexanone	2 U	NR	2 U	NR	2 U	1.6 J	NR
4-Ethyltoluene	0.33 J	NR	0.54 J	NR	0.39 J	0.73 J	NR
Acetone	85	NR	NR	170 D	82	NR	130 D
Allyl Chloride (3-Chloropropene)	1.6 U	NR	1.6 U	NR	1.6 U	1.6 U	NR
Benzene	2	NR	2.2	NR	2.2	4.1	NR
Benzyl Chloride	1 UJ	NR	1 U	NR	1 UJ	1 U	NR
Bromodichloromethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Bromoform	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Bromomethane	0.78 U	NR	0.78 U	NR	0.78 U	0.78 U	NR
Butane	12	NR	8.1	NR	9.9	12	NR
Carbon Disulfide	4.1	NR	1.6	NR	2.3	3	NR
Carbon Tetrachloride	0.32	NR	0.4	NR	0.26	0.24	NR
Chlorobenzene	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
Chlorodifluoromethane	4	NR	8	NR	8.3	0.87 J	NR
Chloroethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Chloroform	8.6	NR	10	NR	9.5	5.9	NR
Chloromethane	0.8 J	NR	0.43 J	NR	0.41 J	0.32 J	NR
Cis-1,2-Dichloroethylene	NR	200 D	110	NR	96	22	NR
Cis-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Cyclohexane	1.1	NR	1	NR	0.65 J	1.1	NR
Cymene	3	NR	2.3	NR	1.9	2.7	NR
Dibromochloromethane	1.7 U	NR	1.7 U	NR	1.7 U	1.7 U	NR
Dichlorodifluoromethane	1.8 J	NR	0.8 J	NR	2.3 J	1.8 J	NR
Ethylbenzene	1.4	NR	4.2	NR	2.2	5.8	NR
Hexachlorobutadiene	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Isopropanol	24	NR	31	NR	24	24	NR
Isopropylbenzene (Cumene)	0.28 J	NR	0.98 U	NR	0.98 U	0.98 U	NR
M,P-Xylenes	5.3	NR	17	NR	8.5	23	NR
Methyl Ethyl Ketone (2-Butanone)	10	NR	6	NR	1.5 U	8.2	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.2 J	NR	2 U	NR	1.3 J	1 J	NR
Methyl Methacrylate	2 U	NR	2 U	NR	2 U	0.76 J	NR
Methylene Chloride	3.9	NR	0.65 J	NR	1.7 U	1.2 J	NR
Naphthalene	2.6 U	NR	2.6 U	NR	2.6 U	2.6 U	NR
N-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
N-Heptane	2.9	NR	2.4	NR	2.5	3.9	NR
N-Hexane	3.3	NR	3.7	NR	3.3	7.1	NR
N-Propylbenzene	0.26 J	NR	0.38 J	NR	0.27 J	0.53 J	NR
O-Xylene (1,2-Dimethylbenzene)	2	NR	3.8	NR	2.4	4.9	NR
Sec-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Styrene	0.41 J	NR	0.3 J	NR	0.85 U	0.42 J	NR
T-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Tert-Butyl Alcohol	14 J	NR	8.6 J	NR	36	14 J	NR
Tert-Butyl Methyl Ether	0.72 U	NR	0.72 U	NR	0.72 U	0.72 U	NR
Tetrachloroethylene (PCE)	NR	780 D	210	NR	130	NR	1,900 D
Tetrahydrofuran	15 U	NR	15 U	NR	15 U	15 U	NR
Toluene	11	NR	24	NR	6.1	29	NR
Trans-1,2-Dichloroethene	1.1	NR	1	NR	0.61 J	0.79 U	NR
Trans-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Trichloroethylene (TCE)	30	NR	34	NR	45	28	NR
Trichlorofluoromethane	1.6	NR	2	NR	1.4	1 J	NR
Vinyl Bromide	0.87 U	NR	0.87 U	NR	0.87 U	0.87 U	NR
Vinyl Chloride	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR
Xylenes, Total	NR	NR	NR	NR	NR	NR	NR

Table 15B
Ikos Senior Living
Queens, NY
2022 and 2024 Subsurface (Phase II) Investigations
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	SV-05_20221004		SV-06_20241213	SV-07_20241213	SV-11_20241213
Lab Sample ID	200-65197-3		200-76306-1	200-76306-2	200-76306-3
Sample Date	10/4/2022		12/13/2024	12/13/2024	12/13/2024
Dilution Factor	1	2	10	10	10
Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Compound	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.33 J	NR	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	1.4 U	NR	14 U	14 U	14 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.56 J	NR	15 U	15 U	15 U
1,1,2-Trichloroethane	1.1 U	NR	11 U	11 U	11 U
1,1-Dichloroethane	0.81 U	NR	8 U	8 U	8 U
1,1-Dichloroethene	0.2 U	NR	2. U	2. U	2. U
1,2,4-Trichlorobenzene	3.7 U	NR	37 U	37 U	37 U
1,2,4-Trimethylbenzene	1.5	NR	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR	15 U	15 U	15 U
1,2-Dichlorobenzene	1.2 U	NR	12 U	12 U	12 U
1,2-Dichloroethane	0.81 U	NR	8 U	8 U	8 U
1,2-Dichloropropane	0.92 U	NR	9 U	9 U	9 U
1,2-Dichlorotetrafluoroethane	1.4 U	NR	14 U	14 U	14 U
1,3,5-Trimethylbenzene (Mesitylene)	0.38 J	NR	10 U	10 U	10 U
1,3-Butadiene	6.6	NR	13.	5.6	4 U
1,3-Dichlorobenzene	2.6	NR	12 U	12 U	12 U
1,4-Dichlorobenzene	1.2 U	NR	12 U	12 U	12 U
1,4-Dioxane (P-Dioxane)	18 U	NR	180 U	180 U	180 U
2,2,4-Trimethylpentane	3.5	NR	2.3 J	3.5 J	9 U
2-Chlorotoluene	1 U	NR	10 U	10 U	10 U
2-Hexanone	2 U	NR	20 U	20 U	20 U
4-Ethyltoluene	0.39 J	NR	10 U	10 U	10 U
Acetone	87	NR	54 J	78 J	120 U
Allyl Chloride (3-Chloropropene)	1.6 U	NR	16 U	16 U	16 U
Benzene	3.9	NR	5. J	3.7 J	6 U
Benzyl Chloride	1 UJ	NR	10 U	10 U	10 U
Bromodichloromethane	1.3 U	NR	13 U	13 U	13 U
Bromoform	2.1 U	NR	21 U	21 U	21 U
Bromomethane	0.78 U	NR	8 U	8 U	8 U
Butane	25	NR	45	66	12 U
Carbon Disulfide	5.4	NR	21.	12 J	16 U
Carbon Tetrachloride	0.28	NR	2.2 U	2.2 U	2.2 U
Chlorobenzene	0.92 U	NR	9 U	9 U	9 U
Chlorodifluoromethane	2.2	NR	18 U	18 U	18 U
Chloroethane	1.3 U	NR	13 U	13 U	13 U
Chloroform	27	NR	10 U	10 U	3.1 J
Chloromethane	0.27 J	NR	10 U	10 U	10 U
Cis-1,2-Dichloroethylene	45	NR	2. U	2. U	8
Cis-1,3-Dichloropropene	0.91 U	NR	9 U	9 U	9 U
Cyclohexane	2	NR	5.9 J	13.	7 U
Cymene	3.6	NR	11 U	11 U	11 U
Dibromochloromethane	1.7 U	NR	17 U	17 U	17 U
Dichlorodifluoromethane	2.3 J	NR	25 U	25 U	25 U
Ethylbenzene	2.9	NR	9 U	9 U	9 U
Hexachlorobutadiene	2.1 U	NR	21 U	21 U	21 U
Isopropanol	11 J	NR	120 U	120 U	120 U
Isopropylbenzene (Cumene)	0.39 J	NR	10 U	10 U	10 U
M,P-Xylenes	9	NR	22 U	22 U	22 U
Methyl Ethyl Ketone (2-Butanone)	11	NR	14. J	18.	15 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.7 J	NR	20 U	20 U	20 U
Methyl Methacrylate	2 U	NR	20 U	20 U	20 U
Methylene Chloride	1.7 U	NR	17 U	17 U	17 U
Naphthalene	2.6 U	NR	20. U	20. U	20. U
N-Butylbenzene	1.1 U	NR	11 U	11 U	11 U
N-Heptane	5.8	NR	3.6 J	9.4	8 U
N-Hexane	7	NR	11 J	25.	18 U
N-Propylbenzene	0.28 J	NR	10 U	10 U	10 U
O-Xylene (1,2-Dimethylbenzene)	2.6	NR	9 U	9 U	9 U
Sec-Butylbenzene	1.1 U	NR	11 U	11 U	11 U
Styrene	0.85 U	NR	9 U	9 U	3.1 J
T-Butylbenzene	1.1 U	NR	11 U	11 U	11 U
Tert-Butyl Alcohol	28	NR	150 U	150 U	150 U
Tert-Butyl Methyl Ether	0.72 U	NR	7 U	7 U	7 U
Tetrachloroethylene (PCE)	NR	390 D	14 U	1.4 J	25.
Tetrahydrofuran	15 U	NR	150 U	150 U	150 U
Toluene	5.8	NR	5.5 J	2.6 J	8 U
Trans-1,2-Dichloroethene	0.79 U	NR	8 U	8 U	8 U
Trans-1,3-Dichloropropene	0.91 U	NR	9 U	9 U	9 U
Trichloroethylene (TCE)	25	NR	2. U	2. U	4.4
Trichlorofluoromethane	3.3	NR	11 U	11 U	11 U
Vinyl Bromide	0.87 U	NR	9 U	9 U	9 U
Vinyl Chloride	0.2 U	NR	2. U	2. U	2. U
Xylenes, Total	NR	NR	30 U	30 U	30 U

Tables 2-15
Ikos Senior Living
Queens, NY
Subsurface (Phase II) and Remedial Investigations
Notes

DEFINITIONS

D : Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.

J : The concentration given is an estimated value.

K : Reported concentration value is proportional to dilution factor and may be exaggerated

L : Sample result is estimated and biased low.

ND : The standard is a non-detectable concentration by the approved analytical method.

NR : Not reported.

NS : No standard.

R : Indicates the reported result is unusable. (note: the analyte may or may not be present.)

T : Indicates that a quality control parameter has exceeded laboratory limits.

U : The analyte was not detected at the indicated concentration.

UJ : The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise

mg/kg : milligrams per kilogram

ppb : parts per billion

ppt : parts per trillion

µg/L : micrograms per liter

µg/m^3 : micrograms per cubic meter of air

Tables 2-15
Ikos Senior Living
Queens, NY
Subsurface (Phase II) and Remedial Investigations
Notes

STANDARDS

Part 375 SCOs : Soil Cleanup Objectives (SCOs) listed in New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations [6 New York Codes, Rules and Regulations (NYCRR) Part 375].

Note: Endosulfans ABS represents the detected sum of Endosulfan I, Endosulfan II, and Endosulfan Sulfate.

Exceedances of Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray shading.
Exceedances of Part 375 Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) are underlined.

NYSDEC Part 375 PFAS Guidance Values : New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis and Assessment Of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs Issued April 2023.

Exceedances of NYSDEC PFAS Unrestricted Use Guidance Values (UUGVs) are highlighted in bold font.
Exceedances of NYSDEC PFAS Restricted Residential Guidance Values (RRGVs) are highlighted in gray shading.

NYSDEC Class GA AWQSGVs : New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

DUPLICATES

RI-DUP-01_20260427 is a blind duplicate of sample RI-SB-09_30-32_20260427.
RI-DUP-02_20260428 is a blind duplicate of sample RI-SB-07_33-35_20260428.
RI-DUP-03_20260429 is a blind duplicate of sample RI-SB-15_15-17_20260429.
RI-DUP-04_20260513 is a blind duplicate of sample RI-SB-01_29.5-31.5_20260513.
RI-SB-DUP-02_20260428 is a blind duplicate of sample RI-SB-13_4-6_20260428.
RI-MW-X_20260513 is a blind duplicate of sample RI-MW-06_20260513.

APPENDIX A
PROPOSED DEVELOPMENT PLANS

31ST STREET (100' WIDE STREET)

C4-5 / C4-3

LEGEND

NOT IN SCOPE

BASE PLANE CALC. @ 31ST ST
(48.80'+52.04')/2 = 50.42' (50'-5")

200'-0 1/4"

3" SEISMIC GAP

RESIDENTIAL EXIT | COMMERCIAL ENTRANCE | COMMERCIAL ENTRANCE | RESIDENTIAL EXIT | COMMERCIAL ENTRANCE | RESIDENTIAL ENTRANCE

137'-8" | 199'-5" PROPERTY LINE | 61'-9" DORMER (8TH THRU 10TH FLS.) | 4 1/4" SEISMIC GAP

EL. +52.04' (52'-0 1/2")

PROPERTY LINE

ROOF OVER 7TH FL.
EL.+127'-7" (HT. +77'-2")

ROOF OVER 10TH FL.
EL.+157'-7" (HT. +107'-2")

EL. +48.80' (48'-9 1/2")

10'-6" SETBACK

ROOF OVER 13TH FLOOR
EL.+187'-8" (HT. +137'-0")

PROJECTIONS BEYOND PROPERTY LINE

2 STORY BRICK BUILDING

LOT 33

STAIR B BULKHEAD ROOF

10'-10"

STAIR A / ELEV. BULKHEAD ROOF

LOT 21

79'-5 3/4" PROPERTY LINE

1 STORY BRICK, CONC. BLOCK & STUCCO BUILDING

30'-0 3/4" REAR YARD

164'-5"

REAR YARD (OUTDOOR PASSIVE RECREATION SPACE)

ROOF OVER 1ST FLOOR (OUTDOOR PASSIVE RECREATION SPACE)
EL.+64'-2"
(HT. +15'-0")

C4-5 / C4-3

150'-0 1/4" PROPERTY LINE

14'-8 3/4"

65'-6" (REAR YARD EQUIVALENT)

1" SEISMIC GAP

179'-2"

SITE PLAN 0' 8' 16' 32' N

C4-5 / C4-3 / C4-2A / R5

LOT 37 | LOT 38 | LOT 138 | LOT 39 | LOT 40

ROOF OVER 1ST FLOOR (C.F.)
EL.+64'-2"
(HT. +13'-1 1/2")

1 STORY BRICK BUILDING

LOT 49 | LOT 48 | LOT 47 | LOT 146 | LOT 46 | LOT 45 | LOT 144 | LOT 44 | LOT 43

2 STORY & BSMT. BRICK BUILDINGS

COMMUNITY FACILITY ROOF OVER 3RD FLOOR
EL.+92'-0"
(HT. +41'-1 1/2")

STAIR & ELEVATOR BULKHEAD

COMMUNITY FACILITY EXIT | COMMUNITY FACILITY ENTRANCE | NEIGHBOR EXIT

EL. +51.21' (51'-2 1/2")

EL. +54.53' (54'-6 3/8")

50'-0" PROPERTY LINE

BASE PLANE CALC. @ 32ND ST
(50.53'+51.21')/2 = 50.87' (50'-10 7/16")

199'-10"

200'-0 1/4"

32ND STREET (60' NARROW STREET)

NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1614 - EARTHQUAKE LOADS.

PROJECT:

IKOS SENIOR LIVING COMMUNITY FACILITY

32-11 31ST STREET
ASTORIA, QUEENS, NY 11106

BLOCK 611, LOT 25
ZONING MAP 9a
ZONING DISTRICTS: C4-5 (R7-2 EQUIVALENT)
C4-2A (R6A EQUIVALENT)

OWNER:
IKOS Senior Living Housing Development Fund Corporation
27-40 HOYT AVENUE SOUTH
ASTORIA, NY 11102
TEL: (212) 840-8005 x 100

ARCHITECT:
SLCE*Architects*,LLP
1359 BROADWAY
NEW YORK, NEW YORK 10018
TEL: (212) 979-8400
FAX: (212) 979-8387

STRUCTURAL ENGINEER:
DE NARDIS ENGINEERING, L.L.C.
239 CENTRAL AVENUE
WHITE PLAINS, NEW YORK 10606
TEL: (914) 948-8844
FAX: (914) 948-8868

MEP ENGINEER:
CMTA
WORLDWIDE PLAZA, 825 EIGHTH AVENUE, FL 18
NEW YORK, NEW YORK 10019
TEL: (212) 944-7722

LANDSCAPE ARCHITECT:
TERRAIN-NYC LANDSCAPE ARCHITECTURE, PC
307 SEVENTH AVENUE, SUITE 1604
NEW YORK, NEW YORK 10001
TEL: (212) 537-6080
FAX: (212) 537-6079

BUILDING ENVELOPE CONSULTANT:
CANY
104 WEST 29TH STREET, 5TH FLOOR
NEW YORK, NY 10001
TEL: (212) 414-9023

BPP & PARKS DEPT. CONSULTANT:
SULLIVAN GROUP DESIGN LLC
56 PINE STREET, 16o
NEW YORK, NY 10005
TEL: (212) 352-8636

No:	Date:	Revision:
	05/08/26	100% DD ISSUANCE
	04/15/26	TOPO
	10/21/22	BLDS DESIGN CONSULTATION SUBMISSION

SCALE: 1/8" = 1'-0"

KEY PLAN:

DRAWING TITLE: SITE PLAN

SIGNATURE:

SEAL:

PROJECT No: 2026-06 / 2017-81
DRAWN BY: JK
CHECK'D BY: JC
DWG. No:

A-100.00

sheet of 00

APPENDIX B
PREVIOUS ENVIRONMENTAL REPORTS

Environmental, Planning, and Engineering Consultants
440 Park Avenue South
7th Floor
New York, NY 10016
tel: 212 696-0670
fax: 212 213-3191
www.akrf.com

June 16, 2021

Mr. Emanuel Kokinakis
Development Manager
Mega Development LLC
48-02 25th Avenue, Suite 400
Astoria, New York 11103

Re: **Phase I Environmental Site Assessment**
31-07 31st Street
Astoria, New York
AKRF Project Number 210124

Dear Mr. Kokinakis:

AKRF, Inc. (AKRF) is pleased to submit this Phase I Environmental Site Assessment Report for the above-referenced Property. This report includes the findings of a reconnaissance of the Property, an evaluation of readily available historical information and selected environmental databases and electronic records. AKRF met the requirements of the American Society for Testing and Materials (ASTM) as established by ASTM Standard E1527-13 unless noted otherwise in Section 9.0: "Limitations and Data Gaps".

We appreciate the opportunity to provide you with our services. If you should have any questions, please do not hesitate to contact Deborah at 646-388-9544.

Sincerely,
AKRF, Inc.

Deborah Shapiro, QEP
Sr. Vice President

EXECUTIVE SUMMARY

AKRF, Inc. (AKRF) was retained by Mega Development LLC to prepare a Phase I Environmental Site Assessment (ESA) of 31-07 31st Street, located in Astoria, Queens (the "Property"). The Property was identified as Queens Tax Block 611, Lot 25. The Property was generally bounded by commercial units to the north, residential/institutional units to the south, commercial/residential units and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). The Property consisted of an existing 20,880 square-foot municipal parking facility.

The greater surrounding area was primarily commercial/retail with some residential and transit uses. The objective of this assessment was to identify any potential environmental concerns associated with the Property resulting from past or current usage of the Property or neighboring properties.

This Phase I Environmental Site Assessment was performed in conformance with ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice*. Any exceptions to, or deletions from, the Standard and/or data gaps are described in Section 9.0. The term "Recognized Environmental Condition" (REC) means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The Standard also includes definitions of Historic REC (HREC), Controlled REC (CREC), and *De Minimis* Condition. A *De Minimis* Condition is defined as an environmental concern that is not a threat to human health or the environment and would not be subject to enforcement action.

A Tier 1 Vapor Encroachment Screen was also conducted in accordance with ASTM Standard E2600-15, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. The term "Vapor Encroachment Condition" (VEC) means the presence or likely presence of vapors from chemicals of concern (COC) in the subsurface of a property caused by the release of vapors on or near the property.

A summary of the assessment findings is presented below:

Recognized Environmental Conditions (RECs)/Vapor Encroachment Conditions (VECs)

- One groundwater monitoring well was observed on 31st Street sidewalk west-adjacent of the Property.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry cleaning uses in the surrounding area.

Business Environmental Risks (including items outside the scope of ASTM E1527-13 such as asbestos containing material [ACM], lead-based paint [LBP] and/or polychlorinated biphenyls [PCBs] in building materials or fill/debris)

- Buried demolition debris from former on-site structures could contain ACM, LBP, PCBs and/or underground storage tanks.

De minimus

- Three five-gallon containers of orphan waste were located on the southeaster-most corner of the Property. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked. These containers should be removed from the Property and properly disposed of in accordance with federal, state, and local requirements.

Recommendations

- A subsurface (Phase II) investigation should be conducted at the Property to investigate the identified RECs/VECs.

- During any future subsurface disturbance, excavated soil should be handled and disposed of in accordance with all applicable regulatory requirements, with testing as required. Any evidence of a petroleum spill must be reported to the NYSDEC and addressed in accordance with applicable requirements. If any tanks are encountered, they should be properly assessed, closed, and removed in accordance with federal, state, and local regulations. Transportation of material leaving the Property for off-site disposal should be in accordance with federal, state, and local requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.
- If dewatering is required during future construction activities, water must be discharged in accordance with the New York City Department of Environmental Protection (NYCDEP) requirements.
- Any activities with the potential to disturb LBP must be performed in accordance with applicable requirements (including federal Occupational Safety and Health Administration regulation 29 CFR 1926.62 - Lead Exposure in Construction) and NYC Local Laws regarding tenant notification, contractor licensing, abatement procedures, etc. Additional requirements, even if no disturbance is planned (e.g., tenant notification, inspections, contractor licensing, and abatement) apply to occupied residential buildings.
- Unless there is labeling or test data that indicates that fluorescent lights and other electrical equipment are not mercury- and/or PCB-containing, if disposal is required, it should be performed in accordance with applicable federal, state, and local regulations and guidelines.
- Any suspect ACM- containing material and/or LBP encountered during excavation should be properly characterized, managed and disposed of in accordance with applicable regulations.

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1.0 INTRODUCTION

AKRF, Inc. (AKRF) was retained by Mega Development LLC (User or Client) to prepare a Phase I Environmental Site Assessment (ESA) of 31-07 31st Street, located in Astoria, Queens (the "Property"). The Property was identified as Queens Tax Block 611, Lot 25. The Property was generally bounded by commercial units to the north, residential/commercial units to the south, commercial/residential units and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). The Property consisted of an existing approximately 0.5-acre municipal parking facility (as shown on Figure 2).

The objective of this assessment was to identify any potential environmental concerns associated with the Property resulting from past or current usage of the Property or surrounding properties.

The scope of services for this assessment was in conformance with ASTM Standard E1527-13 (*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice)* and ASTM Standard E2600-15 (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*). Any exceptions to, or deletions from, this practice are described in Section 9.0. The scope included the following:

- Observations of accessible portions of the Property (reconnaissance) to identify potential sources or indications of hazardous substances, including: aboveground storage tanks (ASTs); underground storage tanks (USTs); tank vents and fill ports; transformers and other items that could contain polychlorinated biphenyls (PCBs), drums or areas where hazardous materials were used, stored, or disposed; stained surfaces and soils; leaks; odors. In addition, neighboring properties were viewed, but only from public rights-of-way, to identify similar concerns.
- Readily available geological and groundwater (hydrogeological) information was evaluated to assist in determining the potential for contamination migration (including in soil, soil vapor and/or groundwater) within, from and onto the Property.
- The reconnaissance of accessible portions of the Property included observation of any readily visible suspect asbestos-containing materials (ACMs) and potential lead-based paint (LBP). However, no samples were collected or analyzed as part of reconnaissance and this reconnaissance provides neither definitive nor exhaustive information.
- A state database of county-level radon concentrations was used to determine typical indoor radon levels and compare them to United States Environmental Protection Agency (USEPA) guidelines.
- Historical land use maps for the Property and nearby sites were reviewed to evaluate historical land uses.
- The following federal regulatory databases were reviewed to determine the regulatory status of the Property and other properties within the ASTM-defined radii: the National Priority List (NPL); Superfund Enterprise Management System (SEMS), including Superfund Enterprise Management System Archive (SEMS-ARCHIVE); Comprehensive Environmental Response, Compensation, and Liability Information System-No Further Remedial Action Planned (CERCLIS-NFRAP); Corrective Actions Report (CORRACTS); Resource Conservation and Recovery Information System (RCRIS); and Emergency Response Notification System (ERNS). Federal ASTM supplemental records reviewed included: Toxic Chemical Release Inventory System (TRIS); Superfund Consent Decrees (CONSENT); Records of Decision (ROD); National Priority List Deletions (Delisted NPL); and United States Brownfields.
- The following state regulatory databases were reviewed to determine the regulatory status of the Property and other properties within predetermined radii: petroleum and hazardous material spills

(SPILLS); Leaking Underground Storage Tanks (LTANKs); Chemical Bulk Storage (CBS); Solid Waste Facilities (SWF); Petroleum Bulk Storage (PBS); State Inactive Hazardous Waste Disposal Sites (SHWS); Hazardous Substance Waste Disposal Site Inventory (HSWDS); Major Oil Storage Facilities (MOSF); Environmental Restoration Program (ERP); Voluntary Cleanup Program (VCP); and New York Brownfield Cleanup Program (BCP).

- Local agency reviews including online Buildings and Finance Departments records and Environmental Quality Review (CEQR) E Designation-sites were conducted for the Property only.
- Review of historic reports including non-ASTM scope items.

2.0 PHYSICAL SITE DESCRIPTION

Visual inspection of the Property was performed on May 4, 2021 by Ms. Elizabeth Baird of AKRF. Ms. Baird was not accompanied by a Client representative during the inspection. At the time of the inspection, the weather was partly cloudy and approximately 65ºF with generally good visibility. The majority of the parking spaces were occupied and surface conditions of the Property were not fully visible during inspection.

The Property was inspected for the presence of stained surfaces and soil, evidence of storage tanks, drums, leaking pipes, transformers, and any other evidence of hazardous material usage and storage on-site. Neighboring properties were also viewed, but only from public rights-of-way. Photographs documenting the inspection are included in Appendix A.

2.1 General Site Conditions

The Property consisted of an approximately 20,880 square foot municipal parking facility for short-term parking. The Property was generally bounded by commercial/retail units to the north, residential/commercial units to the south, residential units and 32nd Street to the east, and 31st Street/an elevated subway station to the west.

The parking facility was comprised of an at-grade asphalt paved parking lot with 60 parking spaces and two pay stations. The asphalt pavement was in poor condition with cracking, patches, and petroleum-like staining observed. Several pole lights, steel traffic bollards, and guard rails were observed on the Property. No other above-grade structures were observed on the Property.

Three apparent storm drains were observed and were presumably connected to the municipal sewer system. Utility manholes were observed along 31st Street and 32nd Street.

Three five-gallon containers of orphan waste were observed in the southeastern-most corner of the Property. Two of the containers were labeled as kerosene and lacquer; the remaining container was unmarked. One trash can, containing household waste, was located on the Property.

No pits, ponds, or lagoons exhibiting evidence (e.g., discolored water, distressed vegetation, obvious wastewater discharge) of holding liquids or sludge containing hazardous substances or petroleum products were observed on the Property. One groundwater monitoring well was observed in the eastern sidewalk along 31st Street, along the western Property boundary. A second monitoring well was observed in the sidewalk of the west-adjacent Property block.

2.2 Topography and Hydrogeology

Based on the U.S. Geological Survey, Central Park, New York 2013 Quadrangle map, the Property lies at approximately 49 feet above mean sea level, with the general surrounding area topography gently sloping down in a westerly direction towards the East River. The East River is located approximately one mile west of the Property.

Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Property can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Property. Groundwater in Queens is not used as a source of potable water.

2.3 Storage Tanks

2.3.1 Underground Storage Tanks (USTs)

During the Property inspection, no evidence, such as manways, vent pipes, or dispenser equipment, was observed that would indicate past or present USTs at the Property. NYC Department of Buildings (NYCDOB) records did not indicate any USTs on the Property.

Off-site USTs are discussed in Section 5.2.2.

2.3.2 Aboveground Storage Tanks (ASTs)

No evidence, such as tanks or vaults likely to contain tanks, vent pipes or fill caps, was observed during the reconnaissance to indicate that ASTs are or were present. NYCDOB records did not indicate any records of ASTs at the Property.

Off-site ASTs are discussed in Section 5.2.2.

2.4 Polychlorinated Biphenyls (PCBs)

Until 1979, polychlorinated biphenyls (PCBs), which provided beneficial insulating properties, were used in a variety of products, in particular electrical equipment such as transformers, capacitors, fluorescent light fixtures, and voltage regulators, but also in hydraulic fluids and some other products such as caulking.

No suspect PCB-containing equipment was identified, and no obvious leaks or odors were noted at the Property.

2.5 Lead-Based Paint (LBP)

Although use of lead-based paint (LBP) has diminished since the 1960s, LBP may still sometimes be used outdoors. Lead-based paint can present a hazard, particularly to children, especially when it is in poor condition.

Painted surfaces on the Property were observed to be in generally good to fair condition, with some damaged paint noted on the steel traffic bollards. Any renovation activities with the potential to disturb lead-based paint must be performed in accordance with the applicable Occupational Safety and Health Administration regulation (OSHA 29 CFR 1926.62—Lead Exposure in Construction).

2.6 Utilities

Consolidated Edison provided electricity to the Property and electricity and natural gas to the surrounding area. The Property was connected to the New York City municipal water and sewer systems.

2.7 Waste Management and Chemical Handling

General refuse generated at the Property was presumably removed by the NYC Department of Sanitation. No evidence of current on-site hazardous waste operations was observed during the site reconnaissance.

2.8 Radon

Radon is a colorless, odorless gas most commonly produced by the natural radioactive decay of certain rocks. According to a New York State Department of Health database, 563 radon tests were conducted in Queens in December 2020. The average basement radon level was found to be 1.22 picoCuries per liter (pCi/L), below the USEPA recommended action level of 4.0 pCi/.

3.0 ASBESTOS-CONTAINING MATERIAL (ACM)

Asbestos refers to a group of natural minerals that provide good fire resistance and insulation. Asbestos is also commonly found in vinyl flooring, plaster, drywall, joint compound, ceiling tiles, roofing materials, gaskets, mastics, caulks and other products. Materials containing more than one percent asbestos are considered asbestos-containing materials (ACM). ACM are classified as either friable (i.e., more readily release fibers, such as most spray-applied fireproofing) or non-friable (such as floor tiles).

Suspect ACM was not observed during the reconnaissance. However, this reconnaissance did not constitute and cannot substitute for an asbestos survey, which includes comprehensive inspection and material sampling with laboratory testing.

Regulatory requirements for ACM (or suspect ACM until proven not to be ACM) include maintaining the materials in good condition and, prior to any renovation or demolition, inspection/sampling by a NYC-certified asbestos investigator to determine whether the project will disturb ACM. Any ACM that would be disturbed by the renovation or demolition must be properly removed prior to such activity.

4.0 ADJACENT LAND USE

The Property was abutted to the north by commercial/retail units, followed by Broadway; to the west by 31st Street and an elevated subway station, followed by commercial/retail and residential units; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by retail and commercial units; and to the east by residential units and 32nd Street. The greater surrounding area was primarily commercial/retail, residential and transit uses.

5.0 PROPERTY HISTORY AND RECORDS REVIEW

5.1 Prior Ownership and Usage

5.1.1 Historical Land Use Maps

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Property. Specifically, Sanborn Fire Insurance Maps from 1898, 1915, 1936, 1948, 1950, 1967, 1977, 1979, 1981, 1985, 1986, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1999, 2001, 2002, 2003, 2004, 2005, and 2006. Copies of the maps are provided in Appendix B.

1898

Property:

The Property was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Property.

Surrounding Properties:

The surrounding properties were primarily vacant lots and some residential dwellings. The William H. Siebrecht Florist Greenhouses were identified north of Broadway between 30th and 31st Streets.

1915

Property:

The Property remained primarily vacant. The previously identified dwelling and shed were replaced with a new dwelling and shed located in the northwestern portion of the Property.

Surrounding Properties:

The surrounding areas were further developed as mostly residential with some commercial uses. A beer bottling and wagon shed was identified on the north-adjacent Property block. Retail stores and wagon sheds were identified on the northwest-adjacent Property block.

1936

Property:

The Property remained mostly unchanged from the 1915 map except for the addition of a one-car garage to the east of the previously identified dwelling.

Surrounding Properties:

The surrounding areas were further developed with residential apartment buildings and rowhouse dwellings as well as commercial uses. A two-story building with shops, a bowling alley, and offices was noted north-adjacent to the Property. The elevated Broadway Subway Station was identified running north-south along 31st Street. The previously identified beer bottling and wagon shed was noted as retail stores. The Broadway Theater Moving Picture Studio was identified north of Property at the intersection of Broadway and 32nd Street. A garage with a gasoline tank and auto repair shop with three adjacent gasoline tanks were noted northwest of the Property at the intersection of Broadway and 29th Street.

1948

Property:

The Property remained mostly unchanged from the 1936 map.

Surrounding Properties:

The surrounding areas continued to develop with more residential (i.e., apartment buildings and rowhouses) and commercial/retail uses. The previously identified William H. Siebrecht Florist Greenhouses were now noted as residential dwellings. The previously identified Broadway Theater Moving Picture Studio and the auto garage and repair shop with gasoline tanks remained unchanged from the 1936 map.

1950

Property:

The Property remained mostly unchanged from the 1948 map except for the configuration and number of the property lot lines, which was reduced to five.

Surrounding Properties:

The surrounding area remained mostly unchanged from the 1948 map. The previously identified auto repair shop and nearby gasoline tanks were no longer depicted northwest of the Property.

1967-1977

Property:

The Property remained unchanged from the 1950 map.

Surrounding Properties:

The surrounding area remained mostly unchanged from the 1950 map. A filling station was identified north-northeast of the Property on 31st Street. A commercial building was identified south-adjacent to the Property. A mechanic's shop and warehouse was identified southwest of the Property along 31st Street between Broadway and 34th Avenue. A dry cleaners was identified along Broadway between 32nd and 33rd Streets, northeast of the Property. The building previously identified as Broadway Theater Moving Picture Studio was no longer identified as such. The eastern-most portions of the 1967 and 1977 maps were indiscernible due to poor image quality.

1979-1986

Property:

The previously identified dwelling was no longer depicted on the Property. The previously identified one-car garage remained on the Property. The western portion of the Property was identified as parking.

Surrounding Properties:

The Property block and surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

1988-1989

Property:

The previously identified one-car garage was no longer identified on the map and the entirety of the Property was labeled as parking.

Surrounding Properties:

The Property block and surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

1990

Property:

The Property remained unchanged from the 1988-1989 maps.

Surrounding Properties:

The previously identified mechanic's shop was noted as a fitness center; the neighboring mechanic's warehouse remained unchanged. The surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

1991-2006

Property:

The Property remained unchanged from the 1990 map.

Surrounding Properties:

The Property block and surrounding areas remained mostly unchanged, with minimal changes in commercial and residential uses.

In summary, historical Sanborn maps indicated that the Property was developed as a residential dwelling from at least 1898 to 1979. The Property was developed in its current configuration as a parking facility by 1988.

Sanborn maps identified primarily residential and commercial uses adjacent to the Property and in the surrounding area. Some of the pertinent commercial listings between circa 1936 and 2006 included: a filling station located north-northeast of the Property; a garage and auto repair shop with gasoline tanks located northwest of the Property; a dry cleaners located northeast of the Property; and a machine shop and warehouse located southwest of the Property.

5.1.2 Property Tax Files and Zoning Records

Based on NYC Department of City Planning's Zoning Map information, the Property was zoned C1-2 (Commercial District Overlay) and R5 (Residential).

5.1.3 Recorded Land Title Records

Copies of title records were not provided to AKRF for review. A review of computerized New York City Automated City Register Information System (ACRIS) records, which included records of financial transactions involving the Property, identified no environmental liens for the Property.

5.1.4 Local Street Directories

A City Directory prepared by Environmental Data Resources, Inc. (EDR) was reviewed as part of this Phase I ESA. The City Directory consisted of the names of businesses located on-site and in adjacent properties, compiled from city and reverse telephone directories at approximately five-year intervals starting in 1920. A summary of the directory findings is below:

The Property was listed in the City Directory in 1934, 1945, 1967, 2000, and 2005; all occupants identified were residential occupants. No occupants indicating non-residential use were listed.

In the surrounding areas, the directories identified mainly residential uses, with some proximal commercial uses, including:

- TR Service Station at 31-70 31st Street (located north-northeast of the Property) in 1962, 1967, 1970, and 1983.
- Riteway/Bartley's Service Station at 32-02 30th Street (located southwest of the Property) in 1939 and 1962.
- Brighton Cleaners/City Cleaners at 31-84 33rd Road/31-85 33rd Street/33-14 Broadway (located northeast of the Property) in 1934, 1939, 1945, 1962, 1994, 2004, 2005, 2014, and 2017.
- Minerva Cleaners at 31-89 29th Street/29-09 Broadway (located northwest of the Property) in 1970, 1994, 2004, 2005, 2009, 2014, and 2017.
- Jeon's Cleaners/Renee French Cleaners at 30-08 Broadway (located north-northwest of the Property) in 1962, 1994, 2004, 2005, 2009, and 2017.
- United Cleaners at 30-02 and 30-06 Broadway (located north-northwest of the Property) in 1934.
- D&F Cleaners at 33-12 Broadway (located east of the Property) in 1934.
- World Cleaners at 32-08 Broadway (located east of the Property) in 2005 and 2009.
- Roosevelt Cleaners at 30-17 Broadway (located north of the Property) in 1962.
- M&M Auto Service at 31-73 31st Street (located northwest of the Property) in 1939.

Given their locations, the above-listed facilities have some potential to have affected the Property subsurface.

The City Directory search results are included in Appendix C.

5.2 Regulatory Review

EDR of Shelton, Connecticut, was contracted to obtain information regarding the regulatory status of the Property and the surrounding area. This information included records from databases maintained by the USEPA and New York State Department of Environmental Conservation (NYSDEC). AKRF reviewed these records to identify the use, generation, storage, treatment and/or disposal of hazardous material and chemicals, or releases of such materials which may impact the project site. All applicable regulatory databases meet ASTM guidelines requesting utilization of information within 90 days' receipt from the appropriate agency. Copies of the pertinent sections of the EDR report are included in Appendix D.

5.2.1 Federal

Federal ASTM standard records reviewed included: the National Priority List (NPL); Superfund Enterprise Management System (SEMS), including Superfund Enterprise Management System Archive (SEMS-ARCHIVE); Comprehensive Environmental Response, Compensation, and Liability Information System-No Further Remedial Action Planned (CERCLIS-NFRAP); Corrective Actions Report (CORRACTS); Resource Conservation and Recovery Information System (RCRIS); and Emergency Response Notification System (ERNS).

Federal ASTM supplemental records reviewed included: Toxic Chemical Release Inventory System (TRIS); Superfund Consent Decrees (CONSENT); Records of Decision (ROD); National Priority List Deletions (Delisted NPL); and United States Brownfields.

National Priority List (NPL)

The NPL is the USEPA's database of some of the most serious uncontrolled or abandoned hazardous waste sites identified for probable remedial action under the Superfund Program. These sites may constitute an immediate threat to human health and the environment. Due to the amount of public attention focused on NPL sites, they pose a significant risk of stigmatizing surrounding properties and potentially impacting property values.

The Property was not listed on the NPL database. No NPL sites were identified within a one-mile radius of the Property.

Superfund Enterprise Management System (SEMS), including Superfund Enterprise Management System Archive (SEMS-ARCHIVE)

The SEMS (formerly known as CERCLIS) list is a compilation of known and suspected uncontrolled or abandoned hazardous waste sites which are, or were, under investigation by USEPA but have not been elevated to the status of a Superfund (NPL) site. Former CERCLIS sites that have been granted the status of No Further Remedial Action Planned (NFRAP), currently known as Superfund Enterprise Management System Archive (SEMS-ARCHIVE) sites, are also included in this database.

The Property was not listed on the SEMS or SEMS-ARCHIVE databases. No SEMS or SEMS-ARCHIVE were identified within a ½-mile radius of the Property.

Corrective Actions Report (CORRACTS)

The CORRACTS database identifies hazardous waste handlers with RCRA corrective action activity.

The Property was not listed on the CORRACTS database. No CORRACTS sites were identified within a one-mile radius of the Property.

Resource Conservation and Recovery Information System (RCRIS)

This database lists sites that have filed notification forms regarding hazardous waste activity, including: treatment, storage and disposal facilities (TSDs); very small quantity generators (VSQG), small quantity generators (SQG), and large quantity generators (LQG); and transporters regulated under RCRA.

The Property was not listed on RCRIS databases. No TSD or LQG facilities were identified within a ½-mile radius of the Property.

One SQG and two VSQG facilities were identified within a ⅛-mile radius of the Property. Of these, the following facilities has some limited potential to have affected environmental conditions at the Property:

- Rite Aid Store No. 10569, located at 32-14 31st Street, approximately 100 feet west of the Property, was listed as a conditionally exempt small quantity generator of wastes associated with photograph development activities and pharmaceutical handling activities.
- The New York City Transit (NYCT) Elevated Subway Station, located at 31st Street and Broadway, approximately 140 feet north-northeast of the Property, was listed as a small quantity generator of lead in 2015.
- Brighton Cleaners, located at 33-14 Broadway, approximately 453 feet northeast of the Property, was listed as a conditionally exempt small quantity generator of spent halogenated solvents in 2006 and 2007 and as a small quantity generator in 1987.

Details of the listings are included in Appendix F.

Emergency Response Notification System (ERNS)

This federal database, compiled by the Emergency Response Notification System, records and stores information on certain reported releases of petroleum and other potentially hazardous substances.

No ERNS listings were identified at the Property.

Toxic Chemical Release Inventory System (TRIS)

The TRIS contains information reported by a variety of industries on their annual estimated releases of certain chemicals.

The Property was not identified on the TRIS database. No TRIS sites were identified within a ⅛-mile radius of the Property.

Superfund Consent Decrees (CONSENT)

Superfund consent decrees are major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. These decrees are periodically released by the United States District Courts after settlement by parties to litigation matters.

The Property was not listed on the CONSENT database. No CONSENT sites were identified within a one-mile radius of the Property.

Records of Decision (ROD)

ROD documents mandate permanent remedies at NPL sites, and contain technical and health information to aid in the cleanup.

The Property was not listed on the ROD database. No ROD sites were identified within a one-mile radius of the Property.

National Priority List Deletions (Delisted NPL)

This database described former NPL sites that are removed from the NPL list by the US EPA. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establish the criteria used by the EPA to delist sites where no further federal response is needed.

The Property was not listed on the delisted NPL database. No delisted NPL sites were identified within a one-mile radius of the Property.

US Brownfields

The US Brownfields program is for properties that report cleanups to the EPA and are served by Brownfields grant programs.

The Property was not listed on the US Brownfields database. No US Brownfields sites were identified within a ½-mile radius of the Property.

5.2.2 State

The state records reviewed included the listings of hazardous material spills (SPILLS); Leaking Underground Storage Tanks (LTANKs); Chemical Bulk Storage (CBS); Solid Waste Facilities (SWF); Petroleum Bulk Storage (PBS); State Inactive Hazardous Waste Disposal Sites (SHWS); Hazardous Substance Waste Disposal Site Inventory (HSWDS); Major Oil Storage Facilities (MOSF); Environmental Restoration Program (ERP); Voluntary Cleanup Program (VCP); and New York Brownfield Cleanup Program (BCP).

New York State Spills Information Database (NY Spills)/Leaking Underground Storage Tanks (LTANKs)

This database includes releases reported to the NYSDEC, including tank test failures (for USTs only) and tank failures.

The Property was not listed within the NY Spills and LTANKS listings. A total of 282 spills, which included 52 leaking tanks, were reporting on surrounding properties within a ½-mile radius. Based on their proximity (within approximately 400 feet), assumed hydraulic relationships, and/or listing details, the following listings have some limited potential to affect subsurface conditions at the Property:

- NYSDEC Spill No. 0512053 was reported at 32-16 33rd Street, approximately 214 feet east-northeast of the Property, and involved a leaking fuel oil AST (presumably with a capacity of 275 gallons) in a residential basement. According to the spill report, following a 230-gallon oil delivery, the entire contents of the tank were released to concrete and soil within the basement. Approximately 17 cubic yards of soil were excavated; however, residual contamination was documented via endpoint sampling. A passive venting system was installed at the property and the spill was closed in 2006.
- NYSDEC Spill Nos. 8903296, 9003215, and 0613804 were reported at 31-70 31st Street, approximately 446 feet north-northeast of the Property and were related to an auto service station with several USTs. According to the information provided in the spill listings, petroleum product was identified in an on-site groundwater monitoring well in 1990; no additional details regarding remediation was provided.

  The listing also reported that several USTs (quantity unknown) were removed and replaced at the site circa 1999, following a tank test failure. Information regarding the tank removals was not provided to NYSDEC and therefore, NYSDEC required further assessment of the site. A Phase II ESA was performed at the site in 2006; the assessment did not encounter petroleum-impacted soils or groundwater and NYSDEC subsequently issued a "No Further Action". In 2007, two 4,000-gallon USTs, six previously unidentified 550-gallon USTs, two pump islands, and associated piping were removed from the site. During tank removal activities,

impacted soil was encountered and approximately 270 tons of petroleum-contaminated soil were excavated from the site. No further investigation or remediation was required and NYSDEC closed the spill in 2007. According to the Petroleum Bulk Storage (PBS) listing, it was reported that the two 4,000-gallon tanks had been converted to non-regulated use. See the PBS Database summary below for additional details.

Based on their locations, assumed hydraulic relationships, and/or listing details, the remaining listings are not likely to have significantly affected subsurface conditions at the Property. Details for all listed NY Spills and LTANKS sites are included in Appendix D.

Chemical Bulk Storage (CBS) Database

The New York CBS is a list of facilities that store regulated non-petroleum substances in aboveground tanks with capacities greater than 185 gallons and/or in underground tanks of any size.

The Property was not listed on the CBS database. No CBS facilities were identified within a ⅛-mile radius of the Property.

Solid Waste Facilities/Landfill Sites (SWF/LF)

The SWF/LF database is a comprehensive listing of state permitted/recorded solid waste management facilities including certain landfills, incinerators, transfer stations, recycling centers, and other sites which manage solid waste.

The Property was not listed in the SWF/LF database. No SWF/LF facilities were identified with a ½-mile radius of the Property.

Petroleum Bulk Storage (PBS) Database

This database lists facilities that registered having either aboveground or underground petroleum tanks with total storage exceeding 1,100 gallons. Facilities with more than 400,000 gallons appear on the Major Oil Storage Facilities (MOSF) database (see below).

Thirty PBS facilities were identified within a ⅛-mile radius of the Property. Of these, the following facilities have some limited potential to have affected environmental conditions at the Property:

Table 1
Area Petroleum Bulk Storage Facility Data

Location	Capacity (gallons)	Product Stored	Status	Distance/Direction from the Property
34-04/08 Broadway	1 x 1,500 AST	No. 2 Fuel Oil	Closed - removed in 2012	140 feet east
30-18 Broadway	1 x 3,000 AST	No. 2 Fuel Oil	Active	147 feet north
31-01 Broadway	1 x 1,500 UST	No. 2 Fuel Oil	Closed - removed in 1990	184 feet north-northeast
30-02 Broadway	1 x 3,000 AST	No. 2 Fuel Oil	Active	197 feet north-northwest
32-12 Broadway	1 x 1,500 UST	No. 2 Fuel Oil	Closed - in place in 1991	197 feet east
31-11 Broadway	1 x 2,000 UST	No. 2 Fuel Oil	Active	200 feet northeast
32-15 30th Street	1 x 3,000 AST	No. 2 Fuel Oil	Active	238 feet northwest
31-77 32nd Street	1 x 5,000 AST	No. 2 Fuel Oil	Active	340 feet east-northeast
32-42 33rd Street	1 x 5,000 UST	No. 6 Fuel Oil	Active	352 feet south-southeast
31-70 31st Street	2 x 4,000 UST	Gasoline	Converted to Non-regulated Use (According to the LTANLKS/SPILLS listings, these tanks, along with six 550-gallon USTs were removed in 2007)	446 feet north-northeast

Based on listing details, distance from the Property and/or inferred groundwater flow direction, the remaining listings would not be expected to have significantly affected the Property.

Details of all PBS listings are included in Appendix D.

State Inactive Hazardous Waste Disposal Site Registry (SHWS)

This program, also known as State Superfund, lists information regarding a variety of sites likely requiring cleanup.

The Property was not listed on the SHWS database. Eleven SHWS sites were identified within a one-mile radius of the Property. Of these, the following listing has some limited potential to have affected environmental conditions at the Property:

- An auto repair facility, located at 34-14 31st Street, approximately 808 feet southwest of the Property, was listed in the database as a 4,000-square foot facility which had operated as an auto repair shop since at least 1936. Elevated concentrations of the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and metals (lead, mercury, and nickel) were detected in site soils. PCE and trichloroethene (TCE) were detected at elevated concentrations in sub-slab vapor samples. Groundwater was not encountered during the remedial investigation. Remediation at this site has been completed; no information regarding the nature and extent of the remediation was provided in the database listing.

Based on the distance from the Property and/or presumed hydraulic relationship, the other facilities are not anticipated to have affected subsurface conditions at the Property.

Details of the SHWS listing are included in Appendix D.

Hazardous Substance Waste Disposal Site Inventory (HSWDS)

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that USEPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites.

The Property was not listed on the HSWDS database. No HSWDS sites were identified within a ½-mile radius of the Property.

Major Oil Storage Facilities (MOSF) Database

These facilities have petroleum storage of 400,000 gallons or more.

The Property was not listed on the MOSF database. No MOSF facilities were reported within a ⅛-mile radius of the Property.

Environmental Restoration Program (ERP)

These sites (which are generally municipally-owned) are receiving New York State funding for site investigation and remediation. Some sites in this program have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

The Property was not listed on the ERP database. No ERP sites were identified within a ½-mile radius of the Property.

Voluntary Cleanup Program (VCP)

The VCP is a NYSDEC program for investigation and remediation of (generally) privately-owned sites. Some sites in this program have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

The Property was not listed on the VCP database. One VCP site, the Levco Metals Finishers site, was identified within a ½-mile radius of the Property. The Levco Metals Finishers site was located at 34-11 36th Street, approximately 2,000 feet south of the Property. Based on the distance from the Property and the presumed hydraulic relationship, this facility is not anticipated to have affected subsurface conditions at the Property.

Details of the VCP listing are included in Appendix D.

Brownfield Cleanup Program (BCP)

The BCP is a NYSDEC program and is the successor to the VCP. Some sites have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

The Property was not listed on the BCP database. One BCP site, Teitelbaum Dry Cleaning, Inc., was identified within a ½ -mile radius of the Property. The Teitelbaum Dry Cleaning site is located at 35-45 35th Street, approximately 2,000 feet south of the Property. Based on the distance from the Property and the presumed hydraulic relationship, this BCP site is not anticipated to have affected subsurface conditions at the Property.

Details of the BCP listing are included in Appendix D.

New York City E-Designation Site Listing

A New York City "E" designation for a property requires that the fee owner of the site conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYC Office of Environmental Remediation (OER) before the issuance of a building permit by the NYC Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements).

The Property was not listed with an E-designation in the database information.

EDR US Historic Auto Station Listings

The EDR US Historic Auto Station database was researched to identify listings for the Property and within a ⅛-mile radius of the Property. This database lists properties that might include gas/filling station establishments based on EDR's search of select national business directories.

The Property was not listed on the historic auto stations database. One EDR historic auto station was identified within a ⅛-mile radius:

- TR Service Station/Sunoco Service Station, located at 31-70 31st Street, approximately 446 feet north-northeast of the Property.

Please refer to the SPILLS/LTANKS listings for further details on this site.

Manufactured Gas Plant (MGP) Sites (Coal Gas)

The EDR manufactured gas plant (MGP) database was researched to identify listings for the Property and facilities within a one-mile radius of the Property.

The Property was not listed on the MGP database. No MGP sites were identified within a one-mile radius of the Property.

Registered Dry Cleaners/EDR US Hist Cleaners

The registered dry cleaners database was researched to identify listings within ¼-mile of the Site. As a supplement to the registered dry cleaners database, EDR's proprietary listing of potential drycleaner sites (listings based on the opinion of EDR) was also reviewed.

The Property was not listed on the database. Six registered dry cleaners and four US EDR Historic Cleaners sites were listed within a ¼-mile radius of the Property. Of these, the following facilities have very limited potential to have affected environmental conditions at the Property:

- City/Brighton Cleaners, Inc., located at 33-14 Broadway, approximately 453 feet east-southeast of the Property, was listed as a dry cleaner and a dry cleaning plant, except rugs in the EDR historical cleaners records between the years of 1991 and 2012.
- Minerva Tailors and Cleaners, located at 29-09 Broadway, approximately 490 feet north-northwest of the Property, was listed as a dry cleaning drop shop. This facility was also listed as a garment pressing and cleaners' agent between the years of 1987 and 1991 and a dry cleaning plant, except rugs between the years of 1992 and 2014 in the EDR historical cleaners records.
- Jeon's Cleaners, located at 30-08 Broadway, approximately 182 feet north-northwest of the Property, was listed as a registered dry cleaning drop shop. This facility, also identified as 3008 Incorporated ERS/Renee French Cleaners, was

listed as a garment pressing and cleaners' agent between the years of 1987 and 2003 and as a cleaning service between the years of 2004 and 2014 in the EDR historical cleaners records.

- Market Supervisory Services, located at 29-10 Broadway, approximately 437 feet northwest of the Property, was listed as a garment pressing and cleaners' agent in 1997 in the EDR historical cleaners records.

Based on their distance from the Property and/or presumed groundwater flow, the remaining facilities are not anticipated to have affected subsurface conditions at the Property.

Details of the registered dry cleaners/EDR US historic cleaners listing are included in Appendix D.

5.2.3 Local Agency File Review

Records available online from the New York City Buildings and Finance Departments were viewed for the Property. Since the local records typically address a multitude of issues, the review focused on items likely to relate to the potential presence of hazardous materials, e.g., petroleum tank installation applications and permits, and records indicating prior uses. Copies of pertinent information are included in Appendix E (Buildings and Finance Department Records).

NYC Buildings Department (DOB)

Electronic NYCDOB records for the Property were reviewed to determine whether there were any references to buildings, tanks or other structures, property usage or inspection reports that may have indicated the presence, past use, or release of hazardous substances, wastes or petroleum products within the Property. A Certificate of Occupancy dated 1957 identified the Property usage as a parking lot. No additional pertinent environmental records were identified in the NYCDOB electronic files.

Land Title Records and Tax Records

Copies of title records were not provided to AKRF for review. A review of computerized New York City ACRIS records, which included records of financial transactions involving the Property, identified no environmental liens or use restrictions for the Property. No deed information was provided in the ACRIS files. Pertinent Property information obtained from the ACRIS files is summarized below:

Year	Land Title Records Information for the Property
1983	Deed for Block 611, Lot 25 Grantor is: Louise Tedeschi (Executor); Grantee is: Frederick Tedeschi and James Tedeschi
1997	Court Order for Block 611, Lots 25, 29, 31, and 32 Grantor is: James Tedeschi and Frederick Tedeschi; Grantee is the City of New York

New York City Department of Health and Mental Hygiene (NYCDOHMH)

AKRF sent a freedom of information law (FOIL) request to the NYCDOHMH for pertinent environmental records on April 29, 2021. On April 29, 2021, NYCDOHMH issued a response e-mail acknowledging the request.

To date, no response has been provided. If issues of potential concern are noted upon receipt of the information, an addendum to this report will be created to discuss relevant findings.

New York City Department of Environmental Protection (NYCDEP)

AKRF sent a FOIL request to the NYCDEP on April 29, 2021. On April 29, 2021, NYCDEP issued a response e-mail acknowledging the request.

To date, no response has been provided. If issues of potential concern are noted upon receipt of the information, an addendum to this report will be created to discuss relevant findings.

5.2.4 Additional Environmental Record Sources

To enhance the search, ASTM requires that additional local records be reviewed (i.e., beyond those included as part of the standard database search or checked online) when, in judgment of the environmental professional, such records for the Property or any adjoining property would be reasonably ascertainable; useful, accurate and complete in light of the objective of the records review. These records may include:

- Local Brownfields Lists
- Local Lists of Landfill/solid waste disposal sites
- Local Lists of Hazardous Waste/Contaminated Sites
- Local Lists of Registered Tanks
- Local Land Records (for activity use limitations)
- Records of emergency release reports
- Records of contaminated public wells

Sources for these records include:

- Department of Health/Environmental Division
- Fire Department
- Building Permit/Inspection Department
- Local/Regional Pollution Control Agency
- Local/Regional Water Quality Agency
- Local Electric Utility (for PCB records)

On April 29, 2021, AKRF sent FOIL requests to the following agencies requesting information pertaining to environmental records for the Property;

- Fire Department of the City of New York (FDNY)
- NYSDEC Region 2
- New York State Department of Health (NYSDOH)

To date, no responses have been provided. If issues of potential concern are noted upon receipt of the information, an addendum to this report will be created to discuss relevant findings.

In addition, AKRF submitted a FOIL request to NYSDEC Region 2 regarding the former auto service station located at 31-70 31st Street, on the northwest-adjacent Property block. To date, no response has been provided. Additional information regarding this site is provided in Section 5.2.2.

In AKRF's judgment, no other local records meeting the ASTM criteria are pertinent for the Property.

6.0 USER-PROVIDED INFORMATION

In preparing this Phase I ESA, AKRF requested that the client provide any pertinent information regarding the Property, specifically:

- Whether any environmental liens or activity and land use limitations (AULs) are in place or filed or recorded against the Property?
- Whether they had any specialized knowledge or experience related to the Property or nearby properties (e.g., specialized knowledge of any chemicals used on-site)?
- Whether the (anticipated) purchase price reflects that the Property is or could be contaminated?
- Whether they were aware of commonly known or reasonably ascertainable information about environmental conditions of the Property?
- Whether they were aware of any obvious indicators of contamination at the Property?
- Whether they were aware of any pending, threatened, ongoing or past litigation/enforcement action/consent order/notice of violation related to hazardous substances or petroleum products?

Mr. Emanuel Kokinakis of Mega Development LLC completed a user questionnaire for the Property. Mr. Kokinakis was not aware/had no information on the status of any: environmental liens or activity use limitations on the Property; property value reduction due to environmental issues; any pending, threatened, ongoing or past litigation/enforcement action/consent order/notice of violation related to hazardous substances or petroleum products; or any obvious indicators of contamination on the Property. To the extent that pertinent additional information was provided, it has been summarized elsewhere in this report.

7.0 PREVIOUS STUDIES

No previous studies were provided for review.

8.0 VAPOR ENCROACHMENT SCREENING

A Tier 1 Vapor Encroachment Screening was conducted in accordance with ASTM Standard E2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The term "Vapor Encroachment Condition" means the presence or likely presence of vapors from chemicals of concern (COC) in the subsurface of a Property caused by the release of vapors on or near the Property. The object of the Tier 1 screening is to conduct a screen for vapor encroachment based on findings from the Phase I ESA to determine if a possible VEC exists at the Property.

Based on AKRF's review of historical and regulatory database records, the following potential VECs were identified based on the Tier 1 Vapor Encroachment Screening:

- One groundwater monitoring well was observed on 31st Street sidewalk west-adjacent of the Property.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry cleaning uses in the surrounding area.

9.0 LIMITATIONS AND DATA GAPS

This assessment met the requirements of the American Society for Testing and Materials (ASTM) as established by ASTM Standard E1527-13 at the time it was performed, with the following limitations:

- Results of this investigation are valid as of the dates on which the investigation was performed.
- During the site reconnaissance, the majority of the parking spaces were occupied and surface conditions of the asphalt parking lot were not fully visible during inspection.
- Interviews and user-provided information were limited to those discussed in Section 6.0. To the extent that interviews were not conducted with the list of interviewees cited in the ASTM Standard (past and present owners, operators, and occupants of the Property and local government officials), AKRF does not believe that this represents a significant data gap likely to result in additional or significantly changed recognized environmental conditions or conclusions.
- The Property area history was not conducted in five-year intervals. However, sufficient information about the history of the site and surrounding area could be obtained from the available historical Sanborn maps, and this data gap is not likely to alter the conclusions of this report.
- Agency file reviews for the Property and adjacent properties consisted of a review of standard databases and electronic records maintained by pertinent departments and agencies (summarized in Section 5.2), as well as FOIL requests submitted to NYSDEC, NYCDEP, NYSDOH, and NYCDOH. AKRF believes that this file review was sufficient in determining the potential for recognized environmental conditions or other environmental concerns at the Property and additional reviews beyond this are not warranted and would not likely change the conclusions of this assessment.

10.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. was retained by Mega Development LLC to prepare a Phase I ESA of 31-07 31st Street, located in Astoria, Queens (the "Property"). The Property was identified as Queens Tax Block 611, Lot 25. The Property was generally bounded by commercial units to the north, residential/institutional units to the south, commercial/residential units and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). The Property consisted of an existing 20,880 square-foot municipal parking facility.

The greater surrounding area was primarily residential and commercial/retail with some transit uses. The objective of this assessment was to identify any potential environmental concerns associated with the Property resulting from past or current usage of the Property or neighboring properties.

This Phase I Environmental Site Assessment was performed in conformance with ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice*. Any exceptions to, or deletions from, the Standard and/or data gaps are described in Section 9.0. The term "Recognized Environmental Condition" (REC) means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The Standard also includes definitions of Historic REC (HREC), Controlled REC (CREC), and *De Minimis* Condition. A *De Minimis* Condition is defined as an environmental concern that is not a threat to human health or the environment and would not be subject to enforcement action.

A Tier 1 Vapor Encroachment Screen was also conducted in accordance with ASTM Standard E2600-15, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. The term "Vapor Encroachment Condition" (VEC) means the presence or likely presence of vapors from chemicals of concern (COC) in the subsurface of a property caused by the release of vapors on or near the property.

A summary of the assessment findings is presented below:

Recognized Environmental Conditions (RECs)/Vapor Encroachment Conditions (VECs)

- One groundwater monitoring well was observed on 31st Street sidewalk west-adjacent of the Property.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry cleaning uses in the surrounding area.

Business Environmental Risks (including items outside the scope of ASTM E1527-13 such as asbestos containing material [ACM], lead-based paint [LBP] and/or polychlorinated biphenyls [PCBs] in building materials or fill/debris)

- Buried demolition debris from former on-site structures could contain ACM, LBP, PCBs and/or underground storage tanks.

De Minimus

- Three five-gallon containers of orphan waste were located on the southeastern-most corner of the Property. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked. These containers should be removed from the Property and properly disposed of in accordance with federal, state, and local requirements.

Recommendations

- A subsurface (Phase II) investigation should be conducted at the Property to investigate the identified RECs/VECs.
- During any future subsurface disturbance, excavated soil should be handled and disposed of in accordance with all applicable regulatory requirements, with testing as required. Any evidence of a petroleum spill must be reported to the NYSDEC and addressed in accordance with applicable requirements. If any tanks are encountered, they should be properly assessed, closed, and removed in accordance with federal, state, and local regulations. Transportation of material leaving the Property for off-site disposal should be in accordance with federal, state, and local requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.
- If dewatering is required during future construction activities, water must be discharged in accordance with the New York City Department of Environmental Protection (NYCDEP) requirements.
- Any activities with the potential to disturb LBP must be performed in accordance with applicable requirements (including federal Occupational Safety and Health Administration regulation 29 CFR 1926.62 - Lead Exposure in Construction) and NYC Local Laws regarding tenant notification, contractor licensing, abatement procedures, etc. Additional requirements, even if no disturbance is planned (e.g., tenant notification, inspections, contractor licensing, and abatement) apply to occupied residential buildings.
- Unless there is labeling or test data that indicates that fluorescent lights and other electrical equipment are not mercury- and/or PCB-containing, if disposal is required, it should be performed in accordance with applicable federal, state, and local regulations and guidelines.
- Any suspect ACM-containing material and/or LBP encountered during excavation should be properly characterized, managed and disposed of in accordance with applicable regulations.

11.0 SIGNATURE PAGE

I declare that, to the best of our professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property for which the assessment was performed. I have performed all the appropriate inquiries in conformance with standards and practices set forth in 40 CFR Part 312.



Deborah Shapiro, QEP
Senior Vice President

12.0 QUALIFICATIONS

The purpose of this assessment was to convey a professional opinion about the potential presence or absence of contamination, or possible sources of contamination on the Property, and to identify existing and/or potential environmental issues associated with the Property including *Recognized Environmental Conditions* as defined in ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice.*

The assessment was performed in accordance with customary principles and practices in the environmental consulting industry, and in accordance with the above-referenced ASTM Standard, except as noted otherwise in Section 8.0. It should only be used as a guide in determining the possible presence or absence of hazardous materials on the Property at the time of the reconnaissance, as it is based upon the review of readily available records relating to both the Property and to the surrounding area, as well as a visual reconnaissance of current conditions.

This Phase I Assessment is not, and should not be construed as, a guarantee, warranty, or certification of the presence or absence of hazardous substances, which can be made only with testing, and contains no formal plans or recommendations to rectify or remediate the presence of any hazardous substances which may be subject to regulatory approval. This report is not a regulatory compliance audit.

This report is based on services performed by AKRF, Inc. professional staff and observation of the Property and its surroundings. We represent that observations made in this assessment are accurate to the best of our knowledge, and that no findings or observations concerning the potential presence of hazardous substances have been withheld or amended. The research and reconnaissance have been carried to a level that meets accepted industry and professional standards. Nevertheless, AKRF and the undersigned shall have no liability or obligation to any party other than the Mega Development LLC and their successors or assignees, and AKRF's obligations and liabilities to the above, their successors or assignees is limited to fraudulent statements made, or grossly negligent or willful acts or omissions.

13.0 REFERENCES

1. Environmental Data Resources, Inc., 31-07 31st Street, Regulatory Radius Map™ Report with GeoCheck®, April 2021.
2. *U.S. Geological Survey – Central Park, New York 2013 Quadrangle*, 7.5 minute Series (Topographic), Scale 1:24,000, 2013.
3. New York State Department of Health: Office of Public Health - Environmental Radiation Section, Basement Radon Screening Data, December 2020.
4. Historical Sanborn maps dated 1898, 1915, 1936, 1948, 1950, 1967, 1977, 1979, 1981, 1985, 1986, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1999, 2001, 2002, 2003, 2004, 2005, and 2006.
5. Environmental Data Resources, 31-07 31st Street City Directory Abstract, April 2021.
6. New York City Department of Buildings, Building Information Search Online (http://a810-bisweb.nyc.gov/bisweb).

IKOS Senior Living
31-07 31st Street
ASTORIA, NEW YORK

Subsurface (Phase II) Investigation Report

AKRF Project Number: 210124

CEQR Number: 22HPD043Q

Prepared for:

Mega Development LLC
48-02 25th Avenue, Suite 400
Astoria, NY 11103

Prepared by:

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JANUARY 2024

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1.0 INTRODUCTION

AKRF, Inc. (AKRF) performed a Subsurface (Phase II) Investigation at the property located at 31-07 31st Street, located in Astoria, Queens (the "Site"). The Site is identified as Block 611, Lot 25 on the New York City Tax map. The Site consists of an approximately 20,880 square-foot municipal parking lot and is generally bounded by commercial units to the north, residential and institutional uses to the south, commercial and residential uses and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1). A Site location map is provided as Figure 1, and a Site plan with sample locations is provided as Figure 2.

The Phase II investigation described below is intended to ascertain whether past uses on or near the Site have adversely affected the Site subsurface prior to redevelopment. The scope of work is based on the findings of a Phase I Environmental Site Assessment (ESA) of the Site, prepared by AKRF in June 2021, which is described in Section 3.0 below, as well as proposed redevelopment plans for the Site.

This investigation was conducted in accordance with a Subsurface (Phase II) Investigation Work Plan and Health and Safety Plan (AKRF, June 2022) approved by the New York City Department of Environmental Protection (NYCDEP) in a letter dated June 16, 2022. Any deviations from the Work Plan are detailed in Section 4.0.

Field activities were performed on October 3 through 5, 2022, and consisted of a geophysical survey, and the installation of seven soil borings, four temporary wells, and five soil vapor probes, with the collection of 14 soil samples, four groundwater samples, and five soil vapor samples for laboratory analysis. This report describes the methods and results of the investigation conducted by AKRF. The locations of the soil borings, temporary groundwater monitoring wells, and temporary soil vapor points are shown on Figure 2.

2.0 SITE DESCRIPTION

At the time of the Phase II Investigation, the Site consisted of a parking lot with no structures. The Site is generally bounded by commercial uses to the north, residential and institutional uses to the south, commercial and residential uses and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1).

Based on the U.S. Geological Survey, Central Park, New York 2013 Quadrangle map, the Site is approximately 49 feet above mean sea level, with the general surrounding area topography gently sloping down in a westerly direction towards the East River. The East River is located approximately one mile west of the Site.

Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in Queens is not used as a source of potable water.

During this Phase II Investigation, fill material (consisting of sand and gravel, with varying amounts of asphalt and brick) was encountered at depths ranging from approximately just below surface grade down to 5 to 14 feet below grade. The fill material was underlain by sand with trace amounts of gravel. Groundwater was encountered between 31 and 34 feet below grade in all seven soil borings.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Phase I Environmental Site Assessment (ESA) – 31-07 31st Street, Astoria, NY, AKRF Inc., June 2021

AKRF conducted a Phase I ESA of the Site in June 2021 in accordance with ASTM E1527-13. At the time of the ESA, the Site consisted of the existing municipal parking facility. The Phase I ESA identified the following Recognized Environmental Conditions (RECs) in connection with the Site:

- One groundwater monitoring well was observed on the 31st Street sidewalk, west-adjacent of the Site.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry-cleaning uses in the surrounding area.

AKRF identified the following Business Environmental Risks (BERs) outside the scope of ASTM E1527-13:

- Potential fill materials and/or demolition debris beneath the Site could contain asbestos-containing materials (ACM), lead-based paint (LBP), and/or polychlorinated biphenyls (PCBs) related to former structures.

Based on the RECs identified, AKRF recommended a Subsurface (Phase II) Investigation be conducted at the Site.

4.0 FIELD ACTIVITIES

4.1 Geophysical Investigation

On October 3, 2022, a geophysical survey was conducted by Enviroprobe Service, Inc. (Enviroprobe) of Mt. Laurel, New Jersey across accessible areas of the Site, to clear the proposed soil boring locations for subsurface utilities and/or structures, and to search for potential USTs. Portions of the Site covered by parked vehicles were inaccessible and not surveyed by Enviroprobe. The geophysical survey included electromagnetic (EM), radio-detection (RD), and ground penetrating radar (GPR) methods. During the geophysical survey, underground electric and storm drainage infrastructure was located to the north and along the eastern and western boundaries. An unknown utility was encountered immediately south of the existing storm drainage infrastructure along the northern portion of the Site. The geophysical investigation report is attached as Appendix A. Photographs of the Phase II activities are provided in Appendix B.

In addition to the geophysical survey, AARCO Environmental Services (AARCO), the drilling contractor, notified Dig Safely New York at least 3 days prior to the start of the intrusive investigation work.

4.2 Soil Sampling and Analysis

Seven soil borings (SB-01 through SB-07) were advanced at the Site on October 3 through 5, 2022 by AARCO. Soil borings were advanced using a track-mounted Geoprobe® direct push probe (DPP). Several borings were relocated within approximately 5 feet of the proposed locations proposed in the Work Plan due to access considerations, utility markouts, and/or geophysical survey findings.

All soil borings were advanced approximately 5 feet into the water table to approximately 40 feet below grade, except for SB-04, which was advanced to 45 feet below grade. Soil cores were collected using 5-foot long, 2-inch diameter macrocore piston rod samplers fitted with dedicated acetate liners. Each macrocore sample was split lengthwise and all samples were logged by AKRF field personnel. Logging consisted of: describing the soil according to the modified Burmister Classification System; describing any evidence of contamination (e.g., staining, sheens, odors); and field-screening the soil for organic vapors using a photoionization detector (PID). The PID was calibrated at the start of the work day, prior to on-site use, using 100 parts per million (ppm) isobutylene gas in accordance with the manufacturer's instructions. Soil boring locations are shown on Figure 2 and soil boring logs are provided in Appendix C.

In accordance with the Work Plan, discrete soil samples were collected from the 0-2 foot interval of each boring, and the interval with the greatest contamination. In the absence of contamination, the sample was collected from the 2-foot interval immediately above the groundwater interface. No staining or sheen was detected in any of the soil borings. Elevated PID readings above background levels were not detected in any of the borings.

Soil samples were placed in laboratory-supplied containers within a chilled cooler in accordance with U.S. Environmental Protection Agency (EPA) protocols and transported via courier with appropriate chain of custody documentation to Eurofins TestAmerica, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory, in Edison, New Jersey. The samples were analyzed for:

- VOCs by EPA Method 8260;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082;

- Pesticides by EPA Method 8081; and
- Target Analyte List (TAL) Metals plus Hexavalent Chromium by EPA 6000/7000 series.

4.3 Groundwater Sampling and Analysis

Between October 3 and 5, 2022, four 1-inch diameter temporary groundwater monitoring wells, designated as TW-01 through TW-04, were installed in borings SB-01 through SB-04, respectively, to facilitate the collection of groundwater samples for laboratory analysis. Groundwater monitoring wells TW-01, TW-02, and TW-03 were installed to approximately 40 feet below grade and monitoring well TW-04 was installed to 45 feet below grade.

The wells were constructed of 1-inch diameter Schedule 40, threaded, flush-jointed polyvinyl chloride (PVC) materials with a 10-foot screen installed across the water table. The wells were developed following installation by purging approximately three well volumes. Prior to sampling, the depth to groundwater and the total well depth were measured using a multi-parameter interface probe attached to a measuring tape accurate to 0.01 feet. Depth to groundwater ranged from 30.31 to 36.61 feet below grade across the Site. No evidence of floating petroleum (separate phase product), sheen, or odors was detected in the purge water at either location, and purge water was discarded back into the boring following sampling activities. Temporary well locations are shown on Figure 2.

Groundwater samples slated for analysis were placed in laboratory-supplied containers and a chilled cooler in accordance with EPA protocols and were analyzed by Eurofins TestAmerica. The groundwater samples were analyzed for:

- VOCs by EPA Method 8260;
- SVOCs by EPA Method 8270;
- PCBs by EPA Method 8082;
- Pesticides by EPA Method 8081; and
- TAL Metals (total and dissolved) by EPA 6000/7000 series. Groundwater samples were filtered in the field for the dissolved metals analysis.

4.4 Soil Vapor Sampling and Analysis

Five soil vapor probes (SV-01 through SV-05) were installed using a Geoprobe® DPP drill rig by advancing an expendable drive point to approximately 14 feet below grade, approximately 2 feet below the proposed building foundation footprint. A 6-inch long, 0.5-inch diameter stainless steel soil vapor screen implant with connected Teflon tubing extending above grade was threaded into the drive point. The probe was then retracted approximately six inches to create a void. No. 2 Morie sand was used to fill the annular space around the vapor point and then, hydrated bentonite was used to fill the void around the tubing to grade. The soil vapor sample locations are shown on Figure 2.

The soil vapor probes were sampled in accordance with the NYSDOH October 2006 *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. Prior to sampling, each probe was purged of approximately three sampler volumes using a Gilian® GilAir™ Plus personal air pump. During purging, an inverted bucket was placed over the probe and helium was introduced through a small hole in the bucket to saturate the atmosphere around the sample port. The purged vapors were collected into a Tedlar® bag and a Dielectric Technologies Model MGD-2002 portable helium detector was used to check for short-circuiting by ambient air, i.e. to verify the adequacy of the bentonite seal. Helium concentrations of less than the NYSDOH guideline of 10 percent were

considered sufficient. Purged vapors were also field-screened for VOCs using a PID calibrated with 100 ppm isobutylene gas. Soil vapor sampling logs are provided in Appendix C.

PID readings were not detected in the purged vapor at all five vapor points. After purging, the probes were connected via tubing to laboratory-supplied, batch-certified clean six-liter SUMMA canisters equipped with two-hour flow regulators. Vacuum readings were collected at the start, middle, and end of sampling. The soil vapor samples were transported via courier with chain of custody documentation to Eurofins TestAmerica for analysis of VOCs by EPA Method TO-15. Upon completion, the soil vapor probes were removed, the holes backfilled, and the ground surface restored to its original condition.

5.0 INVESTIGATION RESULTS

5.1 Field Observations

Soil Sampling

Soil borings were advanced to a maximum depth of approximately 45 feet below grade during this investigation. Fill material (consisting of sand and gravel, with varying amounts of asphalt and brick) was encountered at depths ranging from approximately just below surface grade down to 5 to 14 feet below grade. The fill material was underlain by sand with trace amounts of gravel. Groundwater was encountered between 31 and 34 feet below grade in all seven soil borings.

No evidence of contamination, i.e., PID readings, staining, or odors were observed in any of the seven soil borings. Soil descriptions, observations, and PID readings are detailed in the soil boring logs provided in Appendix C.

Groundwater Sampling

Groundwater, as measured from temporary well points, was encountered between 30.31 and 36.61 feet below grade. No evidence of contamination (i.e., sheen or floating product) was noted in the groundwater samples.

Soil Vapor Sampling

No helium was detected during purging, verifying an adequate bentonite seal for each soil vapor point. PID readings were not detected in the purged vapor prior to sampling. The field logs detailing the soil vapor purging and sampling are included in Appendix C.

5.2 Soil Analytical Results

A total of 14 soil samples were submitted to Eurofins TestAmerica for analysis of VOCs, SVOCs, PCBs, pesticides, TAL metals and hexavalent chromium. Laboratory analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) Soil Cleanup Objectives for Unrestricted Use and Restricted-Residential Use (UUSCOs and RRSCOs, respectively) presented in Sections 6.8(b) of 6 NYCRR Part 375. Soil analytical results are summarized in Tables 1 through 5. The complete laboratory analytical report is provided as Appendix D. The analytical results from the soil sampling are discussed below.

Volatile Organic Compounds (VOCs)

Up to three VOCs [1,2,4-Trimethylbenzene, acetone, and tetrachloroethene (PCE)] were detected in up to 10 of the 14 soil samples with sample concentrations ranging from 0.00024 milligrams per kilogram (mg/kg) to 0.16 mg/kg. Several of the reported concentrations were marked with a "J" qualifier, indicating estimated concentrations. Acetone was detected slightly above the UUSCO of 0.05 mg/kg in two samples with a maximum concentration of 0.16 mg/kg. No VOCs were detected above the RRSCOs.

Analytical results for VOCs in soil are summarized in Table 1.

Semi-volatile Organic Compounds (SVOCs)

Twenty-three SVOCs were detected in the soil samples. Seven SVOCs were detected at concentrations above the UUSCOs and/or RRSCOs, as presented below:

SVOCs in Soil above UUSCOs and RRSCOs

Boring ID Depth (feet bg) Units = mg/kg	UUSCO	RRSCO	SB-01 0-2	SB-05 0-2	SB-05 29-31
Benzo(a)Anthracene	**1**	**1**	**6.5**	**25**	NE
Benzo(a)Pyrene	**1**	**1**	**5.3**	**23**	NE
Benzo(b)Fluoranthene	**1**	**1**	**7.1**	**29**	NE
Benzo(k)Fluoranthene	**0.8**	**3.9**	**2.3**	**7.6**	NE
Chrysene	**1**	**3.9**	**6**	**23**	NE
Dibenz(a,h)Anthracene	**0.33**	**0.33**	**0.95**	**2.7**	NE
Indeno(1,2,3-c,d)Pyrene	**0.5**	**0.5**	**4.2**	**17**	**1.2**

Bold = Detection above UUSCO
Bold and highlighted = Detection above RRSCO
mg/kg = milligrams per kilogram
bg = below grade
NE = No detection above UUSCO or RRSCO

The SVOCs detected above the SCOs consisted of polycyclic aromatic hydrocarbons (PAHs), a class of compounds commonly found in ash, asphalt, and petroleum products. Based on the field observations, the PAHs are most likely attributable to the fill material encountered in the soil borings at the corresponding depths, as noted on the boring log (Appendix C). Analytical results for SVOCs in soil are summarized in Table 2.

Metals

Twenty-three of the 24 metals analyzed for were detected in the soil samples. Hexavalent chromium was not detected above laboratory reporting limits. Four metals (copper, lead, mercury, and zinc) were detected at concentrations exceeding their UUSCOs, but not their RRSCOs, in four out of the 14 samples, as presented below.

Metals in Soil above UUSCOs

Boring ID Depth (feet bg) Units = mg/kg	UUSCO	RRSCO	SB-03 0-2	SB-04 0-2	SB-05 0-2	SB-07 0-2
Copper	**50**	**270**	NE	NE	**63.1**	NE
Lead	**63**	**400**	**81.7**	**80**	**283**	**131**
Mercury	**0.18**	**0.81**	NE	**0.59**	NE	NE
Zinc	**109**	**10,000**	NE	NE	**149**	NE

Bold = Detection above UUSCO
mg/kg = milligrams per kilogram
bg = below grade
NE = No detection above UUSCO or RRSCO

Based on the field observations and the Site history, these findings are most likely attributable to the fill material observed in the borings at corresponding depths, and not to a release or other source area. Analytical results for metals in soil are summarized in Table 3.

Polychlorinated Biphenyls (PCBs) and Pesticides

The PCB Aroclor 1262 was detected at a concentration of 0.063 mg/kg, below its UUSCO of 0.1 mg/kg and RRSCO of 1 mg/kg, in sample SB-02_0-2_20221003. PCBs were not detected above the UUSCO or RRSCO in any of the 14 soil samples.

Four pesticides (cis-chlordane, dieldrin, and P,P'-DDT) were detected in up to three of the 14 soil samples collected. P,P'-DDT was detected at a maximum concentration of 0.0063 mg/kg in sample SB-05_0-2_20221004, above its UUSCO of 0.0033 mg/kg. No other pesticides were detected at concentrations above the UUSCOs. Several of the reported concentrations were marked with a "J" qualifier, indicating estimated concentrations.

Analytical results for PCBs and pesticides in soil are summarized in Tables 4 and 5, respectively.

The detections of SVOCs, metals, PCBs, and pesticides are likely attributable to fill material observed in the soil borings or historical Site uses, and do not appear to indicate a significant release or source area. PCE was detected at low levels in shallow soil samples, indicating potential source material, which has migrated to the groundwater table as evidenced by the groundwater results for VOCs.

5.3 Groundwater Analytical Results

Groundwater analytical results were compared to the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs) as presented in the NYSDEC Division of Water TOGS 1.1.1. The groundwater analytical results are summarized in Tables 6 through 11. The complete laboratory analytical report is provided as Appendix D. The analytical results from the groundwater sampling are discussed below:

VOCs

Chlorinated solvent-related VOCs were detected above AWQSGVs in four groundwater samples, as presented below:

VOCs in Groundwater above Class GA AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01	TW-02	TW-03	TW-04
Chloroform	**7**	NE	NE	NE	**9.2**
Cis-1,2-Dichloroethylene	**5**	**14**	**6.7**	NE	NE
Tetrachloroethylene (PCE)	**5**	**100**	**19**	**100**	**330**

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
NE = No detection above the Class GA AWQSGV

The elevated concentrations of chlorinated solvents in groundwater indicate the possible presence of a release. As the current and prior usage of the Site include parking and residential, the source of the chlorinated solvent detections is unknown at this time. The complete analytical results for VOCs in groundwater are summarized in Table 6.

SVOCs

SVOCs were detected above the AWQSGVs in the sample collected from TW-01, as presented below:

SVOCs in Groundwater above Class GA AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01
Benzo(a)Anthracene	**0.002**	**2.1**
Benzo(a)Pyrene	**ND**	**1.6**
Benzo(b)Fluoranthene	**0.002**	**2.2**
Bis(2-Ethylhexyl) Phthalate	**5**	**6.2**
Chrysene	**0.002**	**2**
Indeno(1,2,3-c,d)Pyrene	**0.002**	**1.6 J**

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
J = estimated concentration
ND = Non-detect

No other SVOCs were detected above the AWQSGVs in the groundwater samples. The SVOC detected are likely attributable to fill material entrained in the water sample. Analytical results for SVOCs in groundwater are summarized in Table 7.

The complete analytical results for SVOCs in groundwater are summarized in Table 7.

Metals (total and dissolved)

In the unfiltered (total) groundwater samples, there were exceedances of the AWQSGVs for 14 metals, whereas in the filtered (dissolved) samples exceedances were limited to iron, magnesium, manganese, and sodium, as presented below:

Total Metals in Groundwater Above AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01	TW-02	TW-03	TW-04
Arsenic	**25**	**63.9**	NE	NE	NE
Barium	**1,000**	**3,540**	NE	NE	NE
Beryllium	**3**	**14.2**	NE	NE	NE
Chromium, Total	**50**	**3,390**	NE	NE	NE
Copper	**200**	**1,340**	NE	NE	NE
Iron	**300**	**971,000**	NE	**1,660**	**4,430**
Lead	**25**	**857**	NE	NE	NE
Magnesium	**35,000**	**355,000**	NE	**47,500**	NE
Manganese	**300**	**24,600**	**439**	NE	**1,090**
Mercury	**0.7**	**1.7**	NE	NE	NE
Nickel	**100**	**922**	NE	NE	NE
Sodium	**20,000**	**74,600**	**140,000**	**128,000**	**109,000**
Thallium	**0.5**	**5.1**	NE	NE	NE
Zinc	**2,000**	**2,640**	NE	NE	NE

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
NE = No detection above the Class GA AWQSGV

Dissolved Metals in Groundwater Above AWQSGVs

Well ID Units = µg/L	Class GA AWQSGV	TW-01	TW-02	TW-03	TW-04
Iron	**300**	NE	NE	**492**	**1,630**
Magnesium	**35,000**	NE	NE	**45,900**	NE
Manganese	**300**	NE	**450**	NE	**1,020**
Sodium	**20,000**	**35,300**	**141,000**	**127,000**	**107,000**

Notes:
Bold = Detection above the Class GA AWQSGV
µg/L = micrograms per liter
NE = No detection above the Class GA AWQSGV

The discrepancy between total and dissolved analysis indicates, as is typical, that the unfiltered samples included entrained particulate material. The exceedances in the filtered samples were likely indicative of natural conditions (e.g., sodium and manganese) and urban background conditions (e.g., heavy metals). Analytical results for metals in groundwater are summarized in Tables 8 and 9.

PCBs and Pesticides

No PCBs or pesticides were detected above laboratory reporting limits in the groundwater samples. The complete analytical results for PCBs and pesticides in groundwater are summarized in Tables 10 and 11, respectively.

The detected metal concentrations in the groundwater samples were likely attributable to regional groundwater contamination and particulate material entrained in the samples. The concentrations of chlorinated solvents above the AWQSGVs indicate the possible presence of a release. As the current and prior usage of the Site include parking and residential, the source of the chlorinated solvent detections is unknown at this time. PAH detections in groundwater are likely attributable to particulates entrained in the water samples, as opposed to an on-site source of SVOC contamination.

5.4 Soil Vapor Analytical Results

The soil vapor sample results indicated 38 of the 71 VOCs analyzed utilizing EPA Method TO-15 were detected in one or more samples. Although there are currently no regulatory or published guidance values for VOCs in soil vapor, soil vapor data was used to assess the potential for exposure to receptors and to help define the nature and extent of contamination at the Site. The analytical results for VOCs in soil vapor are summarized in Table 9. The complete laboratory analytical report is provided in Appendix D.

Solvent-related VOCs [including carbon 1,1,1-trichloroethane, carbon tetrachloride, cis-1,2-dichloroethylene, methylene, PCE, and trichloroethylene (TCE)] were detected at individual concentrations up to 1,900 micrograms per cubic meter (µg/m^3) from a diluted sample (PCE in sample SV-04_20221003). Petroleum-related VOCs benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) were detected in up to all five soil vapor samples at concentrations up to 29 µg/m^3 (toluene in SV-04_20221003).

The elevated concentrations of chlorinated solvents are likely attributable to off-gassing from the elevated solvent concentrations in groundwater or the detections in soil.

6.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. (AKRF) performed a Subsurface (Phase II) Investigation at the property located at 31-07 31st Street, located in Astoria, Queens (the "Site"). The Site is identified as Block 611, Lot 25 on the New York City Tax map. The Site consists of an approximately 20,880 square-foot municipal parking lot and is generally bounded by commercial units to the north, residential and institutional uses to the south, commercial and residential uses and 32nd Street to the east, and 31st Street and an elevated subway station to the west (as shown on Figure 1).

The Phase II investigation is intended to ascertain whether past uses on or near the Site have adversely affected the Site subsurface prior to redevelopment. The scope of work is based on the findings of a Phase I Environmental Site Assessment (ESA) of the Site, prepared by AKRF in June 2021, which is described in Section 3.0 below, as well as proposed redevelopment plans for the Site.

This investigation was conducted in accordance with a Subsurface (Phase II) Investigation Work Plan and Health and Safety Plan (AKRF, June 2022) approved by the New York City Department of Environmental Protection (NYCDEP) in a letter dated June 16, 2022. Any deviations from the Work Plan are detailed in Section 4.0.

This investigation was conducted in accordance with a Subsurface (Phase II) Investigation Work Plan and Health and Safety Plan (AKRF, June 2022). Field activities were conducted on October 3 through 5, 2022 and consisted of the installation of seven soil borings, four temporary wells and five soil vapor probes, with the collection of 14 soil samples, four groundwater samples and five soil vapor samples for laboratory analysis. This report describes the methods and results of the investigation conducted by AKRF. The locations of the soil borings, temporary groundwater monitoring wells, and temporary soil vapor points are shown on Figure 2.

During this Phase II Investigation, fill material (consisting of sand and gravel, with varying amounts of asphalt and brick) was encountered at depths ranging from approximately just below surface grade down to 5 to 14 feet below grade. The fill material was underlain by sand with trace amounts of gravel. Groundwater was encountered between 31 and 34 feet below grade in all seven soil borings.

Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in this portion of Queens is not used as a source of potable water.

Soil sample analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs). Groundwater sample analytical results were compared to NYSDEC TOGS (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs). It should be noted that the Class GA AWQSGVs were developed assuming use of groundwater as a drinking source, a scenario that does not and will not occur at the Site. There are currently no regulatory or published guidance values for volatile organic compounds (VOCs) in soil vapor.

A summary of the analytical results is as follows:

- Fourteen discrete soil samples were collected from the seven soil borings (two samples collected per boring) advanced across the Site and analyzed for VOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and metals. Analytical results for the soil samples identified one VOC (acetone) in two samples above UUSCOs. No VOCs exceeded the RRSCOs. Up

to seven SVOCs were detected above the UUSCOs and/or RRSCOs. Four metals (copper, lead, mercury, and zinc) were detected in up to four samples above their UUSCOs, but below the RRSCOs. The pesticide P,P'-DDT was detected in one sample above its UUSCO.

- Four groundwater samples were collected from temporary wells TW-01 through TW-04 (installed in borings SB-01 through SB-04) and analyzed for VOCs, SVOCs, PCBs, pesticides, and metals (total and dissolved). Three VOCs [tetrachloroethylene (PCE), cis-1,2-dichloroethene, and chloroform] were detected in at least one of the four samples above their AWQSGVs. Six SVOCs were detected in sample TW-01_20221005 at concentrations above the AWQSGVs. In the unfiltered (total) metals analysis, up to 14 metals were detected at concentrations above the AWQSGVs. In the filtered (dissolved) metals analysis, four metals were detected at concentrations above the AWQSGVs.
- Several VOCs [including PCE, trichloroethylene (TCE), and cis-1,2-dichloroethene] were detected at elevated concentrations in the five soil vapor samples. Concentrations were detected up to 1,900 micrograms per cubic meter ($\mu g/m^3$) of PCE.

6.1 Conclusions

Based on the findings of the Phase II investigation, AKRF concludes the following:

- The SVOCs, PCBs, pesticides, and metals detected above the SCOs in soil are most likely attributable to the fill material encountered in the soil borings at the corresponding depths, and not related to an on-site source. PCE was detected at low levels in shallow soil samples, indicating potential source material, which has migrated to the groundwater table as evidenced by the groundwater results for VOCs.
- The elevated concentrations of chlorinated solvents (PCE, cis-1,2-dichloroethene, and chloroform) in groundwater and soil vapor indicate the possible presence of a release. As the current and prior usage of the Site include parking and residential, the source of the chlorinated solvent detections is unknown at this time.
- The detected metal and PAH concentrations in the groundwater samples were likely attributable to regional groundwater contamination and particulate material entrained in the samples.
- The elevated concentrations of chlorinated solvents in soil vapor are likely attributable to off-gassing from the elevated solvent concentrations in groundwater or the detections in shallow soil.

6.2 Recommendations

AKRF understands that the Client is proposing to redevelop the Site with two buildings: a 13-story mixed-used residential building on the Site's 31st Street frontage with 167 affordable senior units and one superintendent's unit and ground-floor retail space; and a three-story community facility building on the Site's 32nd Street frontage. The 13-story building would have a full cellar level, which would require excavation to approximately 12 feet below grade (with limited deeper excavation for foundation elements). The remainder of the Site would be redeveloped with private open space.

- A Remedial Action Plan (RAP) and associated Construction Health and Safety Plan (CHASP) should be prepared for implementation during proposed construction and submitted for DEP approval. The RAP should address requirements for items such as: soil stockpiling, soil disposal and transportation; dust control; tank removal procedures and contingency measures

if petroleum storage tank(s) or other contamination should be unexpectedly encountered; and installation of a vapor barrier beneath the new building foundations to mitigate potential vapor intrusion from new or existing off-site sources. The CHASP should include measures for worker and community protection, including personal protective equipment, dust control, air monitoring, and emergency response procedures.

- Any soil or fill excavated as part of future Site redevelopment activities should be managed in accordance with applicable regulations. All material intended for off-site disposal (including all dumped debris piles) should be tested in accordance with 6 NYCRR Part 360 regulations and the requirements of the intended receiving facility. Transportation of all material leaving the Site for off-site disposal should be in accordance with 6 NYCRR Part 364 requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc. Excavation may reveal different or more significant soil contamination in areas not tested as part of this investigation. If discovered, such contamination could require further investigation and/or remediation in accordance with applicable regulations.
- If dewatering is required during future construction activities, water must be disposed or discharged in accordance with local, county, state, and federal requirements.
- Based on the elevated concentrations of chlorinated solvents in soil vapor, a vapor mitigation system, including a vapor barrier and sub-slab depressurization system (SSDS), is recommended to be installed during new building construction, to prevent intrusion of contaminated vapors into the proposed building.

7.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by Mega Development LLC. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

8.0 SOIL DISPOSAL ISSUES

In addition to the discussions in the Conclusions, Recommendations, and Limitations Sections (Sections 6.0 and 7.0), the issue of appropriate management of off-site disposal of soil warrants careful consideration. Any material being disposed of off-site is a regulated waste, and disposal must be in accordance with:

- Requirements of the specific receiving facility;
- Requirements of any agencies overseeing the cleanup/excavation; and
- Federal and state requirements (sometimes in both the state where the soil is generated and where disposal will occur).

For hazardous wastes and petroleum-contaminated soil (and other 'clearly contaminated' materials), the requirements are usually fairly well defined. It is in the situation where contamination is not readily apparent (e.g., so called "historic or urban fill" or "construction and demolition debris" or material that may have been formerly identified as "clean fill") that present the greatest potential for problems and cost overruns. Even on sites where no contamination requiring remediation is identified, it is common that most of the excavated material is considered "contaminated" for purposes of waste disposal. Concentrations of the various contaminants in historic fill can be highly variable, and upon further testing, the material could contain higher contaminant concentrations than outlined in this investigation. Portions of this material could be classified as hazardous waste.

It is important that the intended disposal facility (or facilities) be identified in advance of off-site disposal. Agency approval is sometimes required for disposal, and the facility will frequently require additional testing prior to (and sometimes at the time of) accepting material. Material must conform to a lengthy list of requirements based on both chemical composition and sometimes numerous other parameters (related to size, percentage of liquids, presence of odors, etc.) for acceptance at the facility. Assuming (or allowing a contractor to assume) that all, or even most, of the soil from a site can be disposed of at minimal cost may result in unanticipated and expensive change orders.

For these reasons, we recommend that professional advice be sought prior to preparing bid documents and contracts incorporating soil disposal.

9.0 REFERENCES

1. Phase I Environmental Site Assessment, 31-07 31st Street, Astoria, New York, AKRF, June 2021.
2. Subsurface (Phase II) Investigation Work Plan, 31-07 31st Street, Astoria, New York, AKRF, June 2022.
3. 6 NYCRR § 375, New York State Department of Environmental Conservation Rules and Regulations, Remedial Program Requirements, effective December 14, 2006.
4. New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1), Class GA Ambient Water Quality Standards and Guidance Values.
5. U.S. Geological Survey – Central Park, New York- 2013 Quadrangle, 7.5 minute Series (Topographic), Scale 1:24,000, 2013.

TABLES

Table 1
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003
		Laboratory Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2	460-266752-3
		Date Sampled	10/05/2022	10/05/2022	10/03/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1,2-Trichloroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1-Dichloroethane	0.27	26	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,1-Dichloroethene	0.33	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2,3-Trichlorobenzene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2,4-Trichlorobenzene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2,4-Trimethylbenzene	3.6	52	0.00055 J	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dichlorobenzene	1.1	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dichloroethane	0.02	3.1	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,2-Dichloropropane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,3-Dichlorobenzene	2.4	49	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
1,4-Dichlorobenzene	1.8	13	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
2-Hexanone	NS	NS	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Acetone	0.05	100	0.008 U	**0.16**	0.0012 U	0.0071	0.0014 U
Benzene	0.06	4.8	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromochloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromodichloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromoform	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Bromomethane	NS	NS	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U
Carbon Disulfide	NS	NS	0.0013 U	0.0013 UT	0.0002 U	0.00019 U	0.00023 U
Carbon Tetrachloride	0.76	2.4	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chlorobenzene	1.1	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chloroethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chloroform	0.37	49	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Chloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Cis-1,2-Dichloroethylene	0.25	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Cis-1,3-Dichloropropene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Cyclohexane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Dibromochloromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Dichlorodifluoromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Ethylbenzene	1	41	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Isopropylbenzene (Cumene)	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
M,P-Xylenes	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Methyl Acetate	NS	NS	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0067 U	0.0066 U	0.001 U	0.00097 U	0.0011 U
Methylcyclohexane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Methylene Chloride	0.05	100	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U
N-Butylbenzene	12	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
N-Propylbenzene	3.9	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Sec-Butylbenzene	11	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Styrene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
T-Butylbenzene	5.9	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Tert-Butyl Methyl Ether	0.93	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Tetrachloroethylene (PCE)	1.3	19	0.0013 U	0.002	0.0013	0.00019 U	0.00023 U
Toluene	0.7	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trans-1,2-Dichloroethene	0.19	100	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trans-1,3-Dichloropropene	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trichloroethylene (TCE)	0.47	21	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Trichlorofluoromethane	NS	NS	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Vinyl Chloride	0.02	0.9	0.0013 U	0.0013 U	0.0002 U	0.00019 U	0.00023 U
Xylenes, Total	0.26	100	0.0027 U	0.0026 U	0.0004 U	0.00039 U	0.00045 U

Table 1
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_32-34_20221003		SB-05_0-2_20221004		SB-05_29-31_20221004	
		Laboratory Sample ID	460-266752-4		460-266752-5		460-266752-6		460-266826-1		460-266826-2	
		Date Sampled	10/03/2022		10/03/2022		10/03/2022		10/04/2022		10/04/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1		1	
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	0.68	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1,2,2-Tetrachloroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1,2-Trichloroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1-Dichloroethane	0.27	26	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,1-Dichloroethene	0.33	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2,3-Trichlorobenzene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2,4-Trichlorobenzene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2,4-Trimethylbenzene	3.6	52	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dichlorobenzene	1.1	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dichloroethane	0.02	3.1	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,2-Dichloropropane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,3-Dichlorobenzene	2.4	49	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
1,4-Dichlorobenzene	1.8	13	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
2-Hexanone	NS	NS	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Acetone	0.05	100	0.014		0.0013	U	0.0012	U	0.0065	U	**0.14**	
Benzene	0.06	4.8	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromochloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromodichloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromoform	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Bromomethane	NS	NS	0.00039	U	0.00043	U	0.00039	U	0.0022	U	0.0032	U
Carbon Disulfide	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Carbon Tetrachloride	0.76	2.4	0.0002	UT	0.00021	UT	0.0002	UT	0.0011	U	0.0016	U
Chlorobenzene	1.1	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Chloroethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Chloroform	0.37	49	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Chloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Cis-1,2-Dichloroethylene	0.25	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Cis-1,3-Dichloropropene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Cyclohexane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Dibromochloromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Dichlorodifluoromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Ethylbenzene	1	41	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Isopropylbenzene (Cumene)	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
M,P-Xylenes	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Methyl Acetate	NS	NS	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.00099	U	0.0011	U	0.00098	U	0.0054	U	0.008	U
Methylcyclohexane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Methylene Chloride	0.05	100	0.00039	U	0.00043	U	0.00039	U	0.0022	U	0.0032	U
N-Butylbenzene	12	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
N-Propylbenzene	3.9	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Sec-Butylbenzene	11	100	0.0002	UT	0.00021	UT	0.0002	UT	0.0011	U	0.0016	U
Styrene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
T-Butylbenzene	5.9	100	0.0002	UT	0.00021	UT	0.0002	UT	0.0011	U	0.0016	U
Tert-Butyl Methyl Ether	0.93	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Tetrachloroethylene (PCE)	1.3	19	0.0002	U	0.00021	U	0.0002	U	0.0097		0.0014	J
Toluene	0.7	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trans-1,2-Dichloroethene	0.19	100	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trans-1,3-Dichloropropene	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trichloroethylene (TCE)	0.47	21	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Trichlorofluoromethane	NS	NS	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Vinyl Chloride	0.02	0.9	0.0002	U	0.00021	U	0.0002	U	0.0011	U	0.0016	U
Xylenes, Total	0.26	100	0.00039	U	0.00043	U	0.00039	U	0.0022	U	0.0032	U

Table 1
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-06_0-2_20221004	SB-06_29-31_20221004	SB-07_0-2_20221003	SB-07_32-34_20221003
		Laboratory Sample ID	460-266826-3	460-266826-4	460-266752-7	460-266752-8
		Date Sampled	10/04/2022	10/04/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1,2-Trichloroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1-Dichloroethane	0.27	26	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,1-Dichloroethene	0.33	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2,3-Trichlorobenzene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2,4-Trichlorobenzene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2,4-Trimethylbenzene	3.6	52	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dichlorobenzene	1.1	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dichloroethane	0.02	3.1	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,2-Dichloropropane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,3-Dichlorobenzene	2.4	49	0.0014 U	0.0012 U	0.00022 U	0.0002 U
1,4-Dichlorobenzene	1.8	13	0.0014 U	0.0012 U	0.00022 U	0.0002 U
2-Hexanone	NS	NS	0.0071 U	0.0061 U	0.0011 U	0.001 U
Acetone	0.05	100	0.0085 U	0.0073 U	0.01	0.031
Benzene	0.06	4.8	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Bromochloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Bromodichloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Bromoform	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 UT
Bromomethane	NS	NS	0.0028 U	0.0024 U	0.00043 U	0.0004 U
Carbon Disulfide	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Carbon Tetrachloride	0.76	2.4	0.0014 U	0.0012 U	0.00022 UT	0.0002 U
Chlorobenzene	1.1	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Chloroethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Chloroform	0.37	49	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Chloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Cis-1,2-Dichloroethylene	0.25	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Cis-1,3-Dichloropropene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Cyclohexane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Dibromochloromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Dichlorodifluoromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Ethylbenzene	1	41	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Isopropylbenzene (Cumene)	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
M,P-Xylenes	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Methyl Acetate	NS	NS	0.0071 U	0.0061 U	0.0011 U	0.001 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0071 U	0.0061 U	0.0011 U	0.001 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0071 U	0.0061 U	0.0011 U	0.001 U
Methylcyclohexane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Methylene Chloride	0.05	100	0.0028 U	0.0024 U	0.00043 U	0.0004 U
N-Butylbenzene	12	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
N-Propylbenzene	3.9	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Sec-Butylbenzene	11	100	0.0014 U	0.0012 U	0.00022 UT	0.0002 U
Styrene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
T-Butylbenzene	5.9	100	0.0014 U	0.0012 U	0.00022 UT	0.0002 U
Tert-Butyl Methyl Ether	0.93	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Tetrachloroethylene (PCE)	1.3	19	0.0014 U	0.00087 J	0.00024	0.00024
Toluene	0.7	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trans-1,2-Dichloroethene	0.19	100	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trans-1,3-Dichloropropene	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trichloroethylene (TCE)	0.47	21	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Trichlorofluoromethane	NS	NS	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Vinyl Chloride	0.02	0.9	0.0014 U	0.0012 U	0.00022 U	0.0002 U
Xylenes, Total	0.26	100	0.0028 U	0.0024 U	0.00043 U	0.0004 U

Table 2
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003	SB-03_0-2_20221003
		Laboratory Sample ID	460-266877-1	460-266877-1	460-266877-2	460-266752-1	460-266752-2	460-266752-3
		Date Sampled	10/05/2022	10/05/2022	10/05/2022	10/03/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	5	1	1	1	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
2,4-Dichlorophenol	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
2,4-Dimethylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2,4-Dinitrophenol	NS	NS	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U
2,4-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U
2,6-Dinitrotoluene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U
2-Chloronaphthalene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Chlorophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Methylnaphthalene	NS	NS	0.28 J	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
2-Nitrophenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
3- And 4- Methylphenol (Total)	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
3-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Chloroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Nitroaniline	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
4-Nitrophenol	NS	NS	0.73 U	NR	0.68 U	0.72 U	0.69 U	0.79 U
Acenaphthene	20	100	0.84	NR	0.34 U	0.35 U	0.34 U	0.39 U
Acenaphthylene	100	100	0.22 J	NR	0.34 U	0.35 U	0.34 U	0.39 U
Acetophenone	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Anthracene	100	100	2.3	NR	0.34 U	0.35 U	0.34 U	0.39 U
Atrazine	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
Benzaldehyde	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Benzo(a)Anthracene	1	1	**6.5**	NR	0.034 U	0.031 J	0.034 U	0.049
Benzo(a)Pyrene	1	1	**5.3**	NR	0.034 U	0.025 J	0.034 U	0.041
Benzo(b)Fluoranthene	1	1	**7.1**	NR	0.034 U	0.033 J	0.034 U	0.057
Benzo(g,h,i)Perylene	100	100	3.3	NR	0.34 U	0.015 J	0.34 U	0.024 J
Benzo(k)Fluoranthene	0.8	3.9	**2.3**	NR	0.034 U	0.014 J	0.034 U	0.022 J
Benzyl Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Biphenyl (Diphenyl)	NS	NS	0.081 J	NR	0.34 U	0.35 U	0.34 U	0.39 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Caprolactam	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Carbazole	NS	NS	0.86	NR	0.34 U	0.35 U	0.34 U	0.39 U
Chrysene	1	3.9	**6**	NR	0.34 U	0.025 J	0.34 U	0.046 J
Dibenz(a,h)Anthracene	0.33	0.33	**0.95**	NR	0.034 U	0.035 U	0.034 U	0.039 U
Dibenzofuran	7	59	0.5	NR	0.34 U	0.35 U	0.34 U	0.39 U
Diethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Dimethyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Di-N-Octylphthalate	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Fluoranthene	100	100	NR	18	0.34 U	0.039 J	0.34 U	0.076 J
Fluorene	30	100	0.77	NR	0.34 U	0.35 U	0.34 U	0.39 U
Hexachlorobenzene	0.33	1.2	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
Hexachlorobutadiene	NS	NS	0.073 U	NR	0.068 U	0.072 U	0.069 U	0.079 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Hexachloroethane	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**4.2**	NR	0.034 U	0.018 J	0.034 U	0.028 J
Isophorone	NS	NS	0.14 U	NR	0.14 U	0.14 U	0.14 U	0.16 U
Naphthalene	12	100	0.37	NR	0.34 U	0.35 U	0.34 U	0.39 U
Nitrobenzene	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	NR	0.034 U	0.035 U	0.034 U	0.039 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Pentachlorophenol	0.8	6.7	0.29 U	NR	0.27 U	0.28 U	0.27 U	0.31 U
Phenanthrene	100	100	NR	16	0.34 U	0.015 J	0.34 U	0.035 J
Phenol	0.33	100	0.36 U	NR	0.34 U	0.35 U	0.34 U	0.39 U
Pyrene	100	100	NR	17	0.34 U	0.039 J	0.34 U	0.075 J

Table 2
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-03_31-33_20221003	SB-04_0-2_20221003	SB-04_32-34_20221003	SB-05_0-2_20221004	SB-05_0-2_20221004	SB-05_29-31_20221004
		Laboratory Sample ID	460-266752-4	460-266752-5	460-266752-6	460-266826-1	460-266826-1	460-266826-2
		Date Sampled	10/03/2022	10/03/2022	10/03/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	10	1
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2,4-Dinitrophenol	NS	NS	0.28 U	0.3 U	0.27 U	0.29 U	NR	0.27 U
2,4-Dinitrotoluene	NS	NS	0.071 U	0.075 U	0.069 U	0.074 U	NR	0.069 U
2,6-Dinitrotoluene	NS	NS	0.071 U	0.075 U	0.069 U	0.074 U	NR	0.069 U
2-Chloronaphthalene	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Chlorophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Methylnaphthalene	NS	NS	0.35 U	0.37 U	0.34 U	0.28 J	NR	0.34 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Nitroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
2-Nitrophenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
3-Nitroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.28 U	0.3 U	0.27 U	0.29 U	NR	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Chloroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Nitroaniline	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
4-Nitrophenol	NS	NS	0.71 U	0.75 U	0.69 U	0.74 U	NR	0.69 U
Acenaphthene	20	100	0.35 U	0.37 U	0.34 U	2.7	NR	0.03 J
Acenaphthylene	100	100	0.35 U	0.37 U	0.34 U	0.67	NR	0.037 J
Acetophenone	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Anthracene	100	100	0.35 U	0.025 J	0.34 U	6.5	NR	0.08 J
Atrazine	NS	NS	0.14 U	0.15 U	0.14 U	0.15 UT	NR	0.14 UT
Benzaldehyde	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Benzo(a)Anthracene	1	1	0.035 U	0.092	0.034 U	NR	**25**	0.27
Benzo(a)Pyrene	1	1	0.035 U	0.08	0.034 U	NR	**23**	0.29
Benzo(b)Fluoranthene	1	1	0.035 U	0.11	0.034 U	NR	**29**	0.39
Benzo(g,h,i)Perylene	100	100	0.35 U	0.042 J	0.34 U	7.5	NR	1.3
Benzo(k)Fluoranthene	0.8	3.9	0.035 U	0.036 J	0.034 U	**7.6**	NR	0.14
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.37 U	0.34 U	0.14 J	NR	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.08 J	0.34 U	0.37 U	NR	0.34 U
Caprolactam	NS	NS	0.35 U	0.37 U	0.34 U	0.37 UT	NR	0.34 UT
Carbazole	NS	NS	0.35 U	0.37 U	0.34 U	1.9	NR	0.023 J
Chrysene	1	3.9	0.35 U	0.088 J	0.34 U	NR	**23**	0.2 J
Dibenz(a,h)Anthracene	0.33	0.33	0.035 U	0.037 U	0.034 U	**2.7**	NR	0.22
Dibenzofuran	7	59	0.35 U	0.37 U	0.34 U	1.2	NR	0.34 U
Diethyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Dimethyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.026 J	NR	0.34 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Fluoranthene	100	100	0.35 U	0.17 J	0.34 U	NR	48	0.46
Fluorene	30	100	0.35 U	0.37 U	0.34 U	2.5	NR	0.018 J
Hexachlorobenzene	0.33	1.2	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
Hexachlorobutadiene	NS	NS	0.071 U	0.075 U	0.069 U	0.074 U	NR	0.069 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Hexachloroethane	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.035 U	0.048	0.034 U	NR	**17**	**1.2**
Isophorone	NS	NS	0.14 U	0.15 U	0.14 U	0.15 U	NR	0.14 U
Naphthalene	12	100	0.35 U	0.37 U	0.34 U	0.47	NR	0.0062 J
Nitrobenzene	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.037 U	0.034 U	0.037 U	NR	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.37 U	0.34 U	0.056 J	NR	0.34 U
Pentachlorophenol	0.8	6.7	0.28 U	0.3 U	0.27 U	0.29 U	NR	0.27 U
Phenanthrene	100	100	0.35 U	0.1 J	0.34 U	NR	27	0.18 J
Phenol	0.33	100	0.35 U	0.37 U	0.34 U	0.37 U	NR	0.34 U
Pyrene	100	100	0.35 U	0.17 J	0.34 U	NR	38	0.39

Table 2
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-06_0-2_20221004		SB-06_29-31_20221004		SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266826-3		460-266826-4		460-266752-7		460-266752-8	
		Date Sampled	10/04/2022		10/04/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	NYSDEC UUSCO	NYSDEC RRSCO	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
1,4-Dioxane (P-Dioxane)	0.1	13	0.036	U	0.034	U	0.037	U	0.034	U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2,4,5-Trichlorophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2,4,6-Trichlorophenol	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
2,4-Dichlorophenol	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
2,4-Dimethylphenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2,4-Dinitrophenol	NS	NS	0.29	U	0.28	U	0.3	U	0.27	U
2,4-Dinitrotoluene	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U
2,6-Dinitrotoluene	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U
2-Chloronaphthalene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Chlorophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Methylnaphthalene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Methylphenol (O-Cresol)	0.33	100	0.36	U	0.34	U	0.37	U	0.34	U
2-Nitroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
2-Nitrophenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
3- And 4- Methylphenol (Total)	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
3,3'-Dichlorobenzidine	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
3-Nitroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29	U	0.28	U	0.3	U	0.27	U
4-Bromophenyl Phenyl Ether	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Chloro-3-Methylphenol	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Chloroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Methylphenol (P-Cresol)	0.33	100	0.36	U	0.34	U	0.37	U	0.34	U
4-Nitroaniline	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
4-Nitrophenol	NS	NS	0.73	U	0.69	U	0.76	U	0.69	U
Acenaphthene	20	100	0.36	U	0.34	U	0.37	U	0.34	U
Acenaphthylene	100	100	0.01	J	0.34	U	0.37	U	0.34	U
Acetophenone	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Anthracene	100	100	0.028	J	0.023	J	0.37	U	0.34	U
Atrazine	NS	NS	0.15	UT	0.14	UT	0.15	U	0.14	U
Benzaldehyde	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Benzo(a)Anthracene	1	1	0.036	U	0.034	U	0.061		0.034	U
Benzo(a)Pyrene	1	1	0.13		0.053		0.056		0.034	U
Benzo(b)Fluoranthene	1	1	0.17		0.034	U	0.083		0.034	U
Benzo(g,h,i)Perylene	100	100	0.062	J	0.024	J	0.029	J	0.34	U
Benzo(k)Fluoranthene	0.8	3.9	0.066		0.034	U	0.035	J	0.034	U
Benzyl Butyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Biphenyl (Diphenyl)	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36	U	0.34	U	0.022	J	0.34	U
Caprolactam	NS	NS	0.36	UT	0.34	UT	0.37	U	0.34	U
Carbazole	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Chrysene	1	3.9	0.11	J	0.049	J	0.062	J	0.34	U
Dibenz(a,h)Anthracene	0.33	0.33	0.036	U	0.034	U	0.037	U	0.034	U
Dibenzofuran	7	59	0.36	U	0.34	U	0.37	U	0.34	U
Diethyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Dimethyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Di-N-Butyl Phthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Di-N-Octylphthalate	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Fluoranthene	100	100	0.22	J	0.1	J	0.094	J	0.34	U
Fluorene	30	100	0.36	U	0.34	U	0.37	U	0.34	U
Hexachlorobenzene	0.33	1.2	0.036	U	0.034	U	0.037	U	0.034	U
Hexachlorobutadiene	NS	NS	0.073	U	0.069	U	0.076	U	0.069	U
Hexachlorocyclopentadiene	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Hexachloroethane	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.14		0.071		0.034	J	0.034	U
Isophorone	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U
Naphthalene	12	100	0.36	U	0.34	U	0.37	U	0.34	U
Nitrobenzene	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
N-Nitrosodi-N-Propylamine	NS	NS	0.036	U	0.034	U	0.037	U	0.034	U
N-Nitrosodiphenylamine	NS	NS	0.36	U	0.34	U	0.37	U	0.34	U
Pentachlorophenol	0.8	6.7	0.29	U	0.28	U	0.3	U	0.27	U
Phenanthrene	100	100	0.12	J	0.076	J	0.039	J	0.34	U
Phenol	0.33	100	0.36	U	0.34	U	0.37	U	0.34	U
Pyrene	100	100	0.21	J	0.1	J	0.093	J	0.34	U

Table 3
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Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003
		Laboratory Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2
		Date Sampled	10/05/2022	10/05/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	**NS**	5,960	2,340	4,180	2,810
Antimony	**NS**	**NS**	0.25 J	0.81 U	1 U	0.94 U
Arsenic	**13**	**16**	2.2	0.62 J	1.5	0.61 J
Barium	**350**	**400**	35.1	20.7	36.3	23.4
Beryllium	**7.2**	**72**	0.32 J	0.12 J	0.24 J	0.23 J
Cadmium	**2.5**	**4.3**	0.098 J	0.81 U	0.14 J	0.11 J
Calcium	**NS**	**NS**	5,840	7,590	7,730	21,600
Chromium, Hexavalent	**1**	**110**	2.1 U	2 U	2.1 U	2.1 U
Chromium, Total	**NS**	**NS**	16.7	8	9.5	8.3
Cobalt	**NS**	**NS**	5.2	2.9	3.7	2.9
Copper	**50**	**270**	15.2	6.8	12.5	9.5
Iron	**NS**	**NS**	10,500	5,240	7,870	6,500
Lead	**63**	**400**	19.1	2.8	13	4
Magnesium	**NS**	**NS**	2,460	4,370	4,190	12,100
Manganese	**1,600**	**2,000**	338	183	207	168
Mercury	**0.18**	**0.81**	0.018	0.016 U	0.15	0.07
Nickel	**30**	**310**	12.1	5.7	8.8	6.7
Potassium	**NS**	**NS**	714	383	744	522
Selenium	**3.9**	**180**	1.1 U	1 U	0.16 J	0.17 J
Silver	**2**	**180**	0.35 U	0.32 U	0.41 U	0.38 U
Sodium	**NS**	**NS**	152	117	275	201
Thallium	**NS**	**NS**	0.058 J	0.32 U	0.11 J	0.069 J
Vanadium	**NS**	**NS**	21.8	7.4	14.8	9.8
Zinc	**109**	**10,000**	28.9	10.2	36.2	15.2

Table 3
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-03_0-2_20221003		SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_32-34_20221003	
		Laboratory Sample ID	460-266752-3		460-266752-4		460-266752-5		460-266752-6	
		Date Sampled	10/03/2022		10/03/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
Aluminum	**NS**	**NS**	6,790		3,030		9,180		4,170	
Antimony	**NS**	**NS**	0.16	J	1	U	0.49	J	1	U
Arsenic	**13**	**16**	2.5		0.86	J	4		1.3	
Barium	**350**	**400**	62.6		19.1		78.8		35.4	
Beryllium	**7.2**	**72**	0.36	J	0.16	J	0.63		0.26	J
Cadmium	**2.5**	**4.3**	0.21	J	1	U	0.43	J	1	U
Calcium	**NS**	**NS**	32,300		1,560		9,950		1,230	
Chromium, Hexavalent	**1**	**110**	2.3	U	2.2	U	2.2	U	2.1	U
Chromium, Total	**NS**	**NS**	16.4		10.1		19.1		19.3	
Cobalt	**NS**	**NS**	5		2.6		9.6		4.6	
Copper	**50**	**270**	23.3		8.2		34.8		18.3	
Iron	**NS**	**NS**	11,300		6,720		20,700		10,400	
Lead	**63**	**400**	**81.7**		2.7		**80**		6.1	
Magnesium	**NS**	**NS**	5,740		1,940		4,900		2,050	
Manganese	**1,600**	**2,000**	216		177		689		268	
Mercury	**0.18**	**0.81**	0.077		0.071		**0.59**		0.018	U
Nickel	**30**	**310**	13.5		6.4		20.7		10.2	
Potassium	**NS**	**NS**	1,360		510		2,720		826	
Selenium	**3.9**	**180**	0.18	J	1.2	U	0.35	J	1.3	U
Silver	**2**	**180**	0.44	U	0.4	U	0.43	U	0.4	U
Sodium	**NS**	**NS**	309		161		301		199	
Thallium	**NS**	**NS**	0.093	J	0.4	U	0.21	J	0.07	J
Vanadium	**NS**	**NS**	20.8		8.5		31.6		15.3	
Zinc	**109**	**10,000**	65.1		14.4		107		27.3	

Table 3
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-05_0-2_20221004	SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Laboratory Sample ID	460-266826-1	460-266826-2	460-266826-3	460-266826-4
		Date Sampled	10/04/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**0-2_20221004 Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	**NS**	6,680	3,380	6,750	3,730
Antimony	**NS**	**NS**	0.3 J	1 U	1 U	1 U
Arsenic	**13**	**16**	6.9	0.72 J	3.4	0.79 J
Barium	**350**	**400**	119	22.4	37.3	23
Beryllium	**7.2**	**72**	0.4 J	0.19 J	0.41 J	0.19 J
Cadmium	**2.5**	**4.3**	0.66 J	1 U	0.16 J	1 U
Calcium	**NS**	**NS**	18,600	18,100	8,910	22,200
Chromium, Hexavalent	**1**	**110**	2.2 U	2.1 U	2.2 U	2.1 U
Chromium, Total	**NS**	**NS**	15.5	9.7	12.3	9.1
Cobalt	**NS**	**NS**	5.3	3	6	3.7
Copper	**50**	**270**	**63.1**	8.9	27.7	9.6
Iron	**NS**	**NS**	13,600	6,800	11,500	8,350
Lead	**63**	**400**	**283**	4.8	30.4	2.2
Magnesium	**NS**	**NS**	5,510	9,550	3,720	14,700
Manganese	**1,600**	**2,000**	265	190	335	176
Mercury	**0.18**	**0.81**	0.094	0.017 U	0.075	0.034
Nickel	**30**	**310**	16.3	6.7	12.3	7.9
Potassium	**NS**	**NS**	1,050	694	763	918
Selenium	**3.9**	**180**	0.48 J	1.3 U	0.19 J	1.3 U
Silver	**2**	**180**	0.25 J	0.41 U	0.42 U	0.4 U
Sodium	**NS**	**NS**	444	175	281	281
Thallium	**NS**	**NS**	0.13 J	0.41 U	0.079 J	0.049 J
Vanadium	**NS**	**NS**	28.1	12.5	17.2	15.5
Zinc	**109**	**10,000**	**149**	16.4	42.5	22.7

Table 3
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Queens, NY
Phase II Investigation Soil Analytical Results
Metals

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266752-7		460-266752-8	
		Date Sampled	10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg	
		Dilution Factor	1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**
Aluminum	**NS**	**NS**	5,980		3,830	
Antimony	**NS**	**NS**	0.2	J	1	U
Arsenic	**13**	**16**	3.9		1	
Barium	**350**	**400**	66.6		29.2	
Beryllium	**7.2**	**72**	0.31	J	0.22	J
Cadmium	**2.5**	**4.3**	0.33	J	1	U
Calcium	**NS**	**NS**	27,200		6,370	
Chromium, Hexavalent	**1**	**110**	2.3	U	2.1	U
Chromium, Total	**NS**	**NS**	15.1		10.2	
Cobalt	**NS**	**NS**	5.4		3.6	
Copper	**50**	**270**	39.8		15.4	
Iron	**NS**	**NS**	13,300		8,020	
Lead	**63**	**400**	**131**		13.7	
Magnesium	**NS**	**NS**	11,900		4,700	
Manganese	**1,600**	**2,000**	274		212	
Mercury	**0.18**	**0.81**	0.11		0.016	U
Nickel	**30**	**310**	16.8		8.1	
Potassium	**NS**	**NS**	1,220		729	
Selenium	**3.9**	**180**	0.19	J	1.2	U
Silver	**2**	**180**	0.11	J	0.4	U
Sodium	**NS**	**NS**	402		170	
Thallium	**NS**	**NS**	0.11	J	0.062	J
Vanadium	**NS**	**NS**	32.6		13.4	
Zinc	**109**	**10,000**	109		21.4	

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-01_0-2_20221005		SB-01_31-33_20221005		SB-02_0-2_20221003		SB-02_31-33_20221003	
		Laboratory Sample ID	460-266877-1		460-266877-2		460-266752-1		460-266752-2	
		Date Sampled	10/05/2022		10/05/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.073	U	0.069	U	0.063	J	0.069	U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.073	U	0.069	U	0.072	U	0.069	U
Total PCBs	**0.1**	**1**	0.073	U	0.069	U	0.063	J	0.069	U

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-03_0-2_20221003		SB-03_31-33_20221003		SB-04_0-2_20221003		SB-04_32-34_20221003	
		Laboratory Sample ID	460-266752-3		460-266752-4		460-266752-5		460-266752-6	
		Date Sampled	10/03/2022		10/03/2022		10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg	
		Dilution Factor	1		1		1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.079	U	0.071	U	0.075	U	0.069	U
Total PCBs	**0.1**	**1**	0.079	U	0.071	U	0.075	U	0.069	U

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-05_0-2_20221004	SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Laboratory Sample ID	460-266826-1	460-266826-2	460-266826-3	460-266826-4
		Date Sampled	10/04/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U
Total PCBs	**0.1**	**1**	0.074 U	0.069 U	0.073 U	0.069 U

Table 4
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266752-7		460-266752-8	
		Date Sampled	10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg	
		Dilution Factor	1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.076	U	0.069	U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.076	U	0.069	U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.076	U	0.069	U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.076	U	0.069	U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.076	U	0.069	U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.076	U	0.069	U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.076	U	0.069	U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.076	U	0.069	U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.076	U	0.069	U
Total PCBs	**0.1**	**1**	0.076	U	0.069	U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-01_0-2_20221005	SB-01_31-33_20221005	SB-02_0-2_20221003	SB-02_31-33_20221003
		Laboratory Sample ID	460-266877-1	460-266877-2	460-266752-1	460-266752-2
		Date Sampled	10/05/2022	10/05/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aldrin	**0.005**	**0.097**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0022 U	0.002 U	0.0021 U	0.002 U
Alpha Endosulfan	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0022 U	0.002 U	0.0021 U	0.002 U
Beta Endosulfan	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
cis-Chlordane	**0.094**	**4.2**	0.0073 U	0.0069 U	0.0052 JP	0.0069 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0022 U	0.002 U	0.0021 U	0.002 U
Dieldrin	**0.005**	**0.2**	0.002 J	0.002 U	0.0021 U	0.002 U
Endosulfan Sulfate	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Endosulfans ABS	**2.4**	**24**	0 U	0 U	0 U	0 U
Endrin	**0.014**	**11**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Endrin Aldehyde	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Endrin Ketone	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0022 U	0.002 U	0.0021 U	0.002 U
Heptachlor	**0.042**	**2.1**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Heptachlor Epoxide	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
Methoxychlor	**NS**	**NS**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
P,P'-DDD	**0.0033**	**13**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
P,P'-DDE	**0.0033**	**8.9**	0.0073 U	0.0069 U	0.0072 U	0.0069 U
P,P'-DDT	**0.0033**	**7.9**	0.0033 J	0.0069 U	0.0072 U	0.0069 U
Toxaphene	**NS**	**NS**	0.073 U	0.069 U	0.072 U	0.069 U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-03_0-2_20221003	SB-03_31-33_20221003	SB-04_0-2_20221003	SB-04_32-34_20221003
		Laboratory Sample ID	460-266752-3	460-266752-4	460-266752-5	460-266752-6
		Date Sampled	10/03/2022	10/03/2022	10/03/2022	10/03/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aldrin	**0.005**	**0.097**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Alpha Endosulfan	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Beta Endosulfan	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
cis-Chlordane	**0.094**	**4.2**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Dieldrin	**0.005**	**0.2**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Endosulfan Sulfate	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Endosulfans ABS	**2.4**	**24**	0 U	0 U	0 U	0 U
Endrin	**0.014**	**11**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Endrin Aldehyde	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Endrin Ketone	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0023 U	0.0021 U	0.0022 U	0.0021 U
Heptachlor	**0.042**	**2.1**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Heptachlor Epoxide	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Methoxychlor	**NS**	**NS**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
P,P'-DDD	**0.0033**	**13**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
P,P'-DDE	**0.0033**	**8.9**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
P,P'-DDT	**0.0033**	**7.9**	0.0079 U	0.0071 U	0.0075 U	0.0069 U
Toxaphene	**NS**	**NS**	0.079 U	0.071 U	0.075 U	0.069 U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-05_0-2_20221004	SB-05_29-31_20221004	SB-06_0-2_20221004	SB-06_29-31_20221004
		Laboratory Sample ID	460-266826-1	460-266826-2	460-266826-3	460-266826-4
		Date Sampled	10/04/2022	10/04/2022	10/04/2022	10/04/2022
		Unit	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aldrin	**0.005**	**0.097**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Alpha Endosulfan	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Beta Endosulfan	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
cis-Chlordane	**0.094**	**4.2**	0.013 P	0.0069 U	0.0073 U	0.0069 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Dieldrin	**0.005**	**0.2**	0.0027	0.0021 U	0.0022 U	0.0021 U
Endosulfan Sulfate	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Endosulfans ABS	**2.4**	**24**	0 U	0 U	0 U	0 U
Endrin	**0.014**	**11**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Endrin Aldehyde	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Endrin Ketone	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0022 U	0.0021 U	0.0022 U	0.0021 U
Heptachlor	**0.042**	**2.1**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Heptachlor Epoxide	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
Methoxychlor	**NS**	**NS**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
P,P'-DDD	**0.0033**	**13**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
P,P'-DDE	**0.0033**	**8.9**	0.0074 U	0.0069 U	0.0073 U	0.0069 U
P,P'-DDT	**0.0033**	**7.9**	**0.0063 J**	0.0069 U	0.0073 U	0.0069 U
Toxaphene	**NS**	**NS**	0.074 U	0.069 U	0.073 U	0.069 U

Table 5
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Analytical Results
Pesticides

		AKRF Sample ID	SB-07_0-2_20221003		SB-07_32-34_20221003	
		Laboratory Sample ID	460-266752-7		460-266752-8	
		Date Sampled	10/03/2022		10/03/2022	
		Unit	mg/kg		mg/kg	
		Dilution Factor	1		1	
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	**CONC**	**Q**	**CONC**	**Q**
Aldrin	**0.005**	**0.097**	0.0076	U	0.0069	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0023	U	0.0021	U
Alpha Endosulfan	**NS**	**NS**	0.0076	U	0.0069	U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0023	U	0.0021	U
Beta Endosulfan	**NS**	**NS**	0.0076	U	0.0069	U
cis-Chlordane	**0.094**	**4.2**	0.0076	U	0.0069	U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0023	U	0.0021	U
Dieldrin	**0.005**	**0.2**	0.0023	U	0.0021	U
Endosulfan Sulfate	**NS**	**NS**	0.0076	U	0.0069	U
Endosulfans ABS	**2.4**	**24**	0	U	0	U
Endrin	**0.014**	**11**	0.0076	U	0.0069	U
Endrin Aldehyde	**NS**	**NS**	0.0076	U	0.0069	U
Endrin Ketone	**NS**	**NS**	0.0076	U	0.0069	U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0023	U	0.0021	U
Heptachlor	**0.042**	**2.1**	0.0076	U	0.0069	U
Heptachlor Epoxide	**NS**	**NS**	0.0076	U	0.0069	U
Methoxychlor	**NS**	**NS**	0.0076	U	0.0069	U
P,P'-DDD	**0.0033**	**13**	0.0076	U	0.0069	U
P,P'-DDE	**0.0033**	**8.9**	0.0076	U	0.0069	U
P,P'-DDT	**0.0033**	**7.9**	0.0076	U	0.0069	U
Toxaphene	**NS**	**NS**	0.076	U	0.069	U

Table 6
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
VOCs

	AKRF Sample ID	TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004		TB_20221003	
	Laboratory Sample ID	460-266877-3		460-266752-9		460-266826-5		460-266826-6		460-266752-10	
	Date Sampled	10/05/2022		10/03/2022		10/04/2022		10/04/2022		10/03/2022	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L	
	Dilution Factor	1		1		1		1		1	
Compound	AWQSGV	CONC	Q	CONC	Q	CONC	Q	CONC	Q	CONC	Q
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	5	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene (Mesitylene)	5	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U
Acetone	50	50		5	U	5	U	5	U	5	U
Benzene	1	0.3	J	1	U	1	U	1	U	1	U
Bromochloromethane	5	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	50	1	U	1	U	1	U	0.5	J	1	U
Bromoform	50	1	U	1	U	1	U	1	U	1	U
Bromomethane	5	1	U	1	UT	1	UT	1	UT	1	UT
Carbon Disulfide	60	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1.6		2.4		2.7		**9.2**		1	U
Chloromethane	5	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethylene	5	**14**		**6.7**		0.41	J	2.3		1	U
Cis-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U
Cyclohexane	NS	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	50	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	5	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	5	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U	1	U	1	U	1	U
M,P-Xylenes	5	1	U	1	U	1	U	1	U	0.47	J
Methyl Acetate	NS	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	9.4		5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NS	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	1	U	1	U	1	U	1	U	0.32	J
N-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U
N-Propylbenzene	5	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U	1	U	1	U	1	U
Sec-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U
Styrene	5	1	U	1	U	1	U	1	U	1	U
T-Butylbenzene	5	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	10	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	5	**100**		**19**		**100**		**330**		1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U
Trichloroethylene (TCE)	5	2.1		1	U	0.69	J	1.9		1	U
Trichlorofluoromethane	5	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	2	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	NS	2	U	2	U	2	U	2	U	2	U

Table 7
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
SVOCs

	AKRF Sample ID	TW-01_20221005	TW-02_20221003	TW-02_20221003	TW-03_20221004	TW-04_20221004
	Laboratory Sample ID	460-266877-3	460-266752-9	460-266752-9	460-266826-5	460-266826-6
	Date Sampled	10/05/2022	10/03/2022	10/03/2022	10/04/2022	10/04/2022
	Unit	µg/L	µg/L	µg/L	µg/L	µg/L
	Dilution Factor	1	1	5	1	1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	NR	10 U	10 U
1,4-Dioxane (P-Dioxane)	NS	10 U	10 U	NR	10 U	10 U
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U	NR	10 U	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U	NR	10 U	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U	NR	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	NR	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	NR	10 U	10 U
2,4-Dinitrophenol	10	40 U	40 U	NR	40 U	40 U
2,4-Dinitrotoluene	5	10 U	10 U	NR	10 U	10 U
2,6-Dinitrotoluene	5	2 U	2 U	NR	2 U	2 U
2-Chloronaphthalene	10	10 U	10 U	NR	10 U	10 U
2-Chlorophenol	NS	10 U	10 U	NR	10 U	10 U
2-Methylnaphthalene	NS	10 U	10 U	NR	10 U	10 U
2-Methylphenol (O-Cresol)	NS	10 U	10 U	NR	10 U	10 U
2-Nitroaniline	5	10 U	10 U	NR	10 U	10 U
2-Nitrophenol	NS	10 U	10 U	NR	10 U	10 U
3- And 4- Methylphenol (Total)	NS	10 U	10 U	NR	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	NR	10 U	10 U
3-Nitroaniline	5	10 U	10 U	NR	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20 U	20 U	NR	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	10 U	10 U	NR	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 U	NR	10 U	10 U
4-Chloroaniline	5	10 U	10 U	NR	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U	NR	10 U	10 U
4-Methylphenol (P-Cresol)	NS	10 U	10 U	NR	10 U	10 U
4-Nitroaniline	5	10 U	10 U	NR	10 U	10 U
4-Nitrophenol	NS	20 U	20 U	NR	20 U	20 U
Acenaphthene	20	10 U	10 U	NR	10 U	10 U
Acenaphthylene	NS	10 U	10 U	NR	10 U	10 U
Acetophenone	NS	10 U	10 U	NR	10 U	10 U
Anthracene	50	10 U	10 U	NR	10 U	10 U
Atrazine	7.5	2 UT	2 UT	NR	2 UT	2 UT
Benzaldehyde	NS	10 U	10 U	NR	10 U	10 U
Benzo(a)Anthracene	0.002	**2.1**	1 U	NR	1 U	1 U
Benzo(a)Pyrene	ND	**1.6**	1 U	NR	1 U	1 U
Benzo(b)Fluoranthene	0.002	**2.2**	2 U	NR	2 U	2 U
Benzo(g,h,i)Perylene	NS	1.7 J	10 U	NR	10 U	10 U
Benzo(k)Fluoranthene	0.002	1 U	1 U	NR	1 U	1 U
Benzyl Butyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Biphenyl (Diphenyl)	5	10 U	10 U	NR	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10 U	10 U	NR	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1 U	1 U	NR	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U	NR	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	**6.2**	2 U	NR	2 U	2 U
Caprolactam	NS	10 U	NR	98	10 U	10 U
Carbazole	NS	10 U	10 U	NR	10 U	10 U
Chrysene	0.002	**2**	2 U	NR	2 U	2 U
Dibenz(a,h)Anthracene	NS	1 U	1 U	NR	1 U	1 U
Dibenzofuran	NS	10 U	10 U	NR	10 U	10 U
Diethyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Dimethyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Di-N-Butyl Phthalate	50	10 U	10 U	NR	10 U	10 U
Di-N-Octylphthalate	50	10 U	10 U	NR	10 U	10 U
Fluoranthene	50	4 J	10 U	NR	10 U	10 U
Fluorene	50	10 U	10 U	NR	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	NR	1 U	1 U
Hexachlorobutadiene	0.5	1 U	1 U	NR	1 U	1 U
Hexachlorocyclopentadiene	5	10 U	10 U	NR	10 U	10 U
Hexachloroethane	5	2 U	2 U	NR	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	0.002	**1.6 J**	2 U	NR	2 U	2 U
Isophorone	50	10 U	10 U	NR	10 U	10 U
Naphthalene	10	2 U	2 U	NR	2 U	2 U
Nitrobenzene	0.4	1 U	1 U	NR	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1 U	1 U	NR	1 U	1 U
N-Nitrosodiphenylamine	50	10 U	10 U	NR	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	NR	20 U	20 U
Phenanthrene	50	2.6 J	10 U	NR	10 U	10 U
Phenol	1	10 U	10 U	NR	10 U	10 U
Pyrene	50	3.4 J	10 U	NR	10 U	10 U

Table 8
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
Total Metals

AKRF Sample ID		TW-01_20221005	TW-01_20221005	TW-02_20221003	TW-03_20221004	TW-04_20221004
Laboratory Sample ID		460-266877-3	460-266877-3	460-266752-9	460-266826-5	460-266826-6
Date Sampled		10/05/2022	10/05/2022	10/03/2022	10/04/2022	10/04/2022
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	5	1	1	1
Compound	**AWQSGV**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	NR	294,000	21.1 J	771	2,320
Antimony	**3**	1.9 J	NR	2 U	2 U	2 U
Arsenic	**25**	**63.9**	NR	2 U	2 U	2 U
Barium	**1,000**	**3,540**	NR	103	140	171
Beryllium	**3**	**14.2**	NR	0.8 U	0.8 U	0.16 J
Cadmium	**5**	5	NR	2 U	2 U	2 U
Calcium	**NS**	NR	913,000	88,000	116,000	88,700
Chromium, Total	**50**	**3,390**	NR	4 U	5.5	14.6
Cobalt	**NS**	325	NR	1.7 J	1.6 J	3.3 J
Copper	**200**	**1,340**	NR	4 U	3.7 J	8.6
Iron	**300**	NR	**971,000**	120 U	**1,660**	**4,430**
Lead	**25**	**857**	NR	1.2 U	2.7	1.6
Magnesium	**35,000**	**355,000**	NR	33,700	**47,500**	33,100
Manganese	**300**	NR	**24,600**	**439**	261	**1,090**
Mercury	**0.7**	**1.7**	NR	0.2 U	0.2 U	0.2 U
Nickel	**100**	**922**	NR	4.3	4.3	11.7
Potassium	**NS**	66,400	NR	3,480	5,380	8,380
Selenium	**10**	1.5 J	NR	3.1	2.8	0.78 J
Silver	**50**	2.5	NR	2 U	2 U	2 U
Sodium	**20,000**	**74,600**	NR	**140,000**	**128,000**	**109,000**
Thallium	**0.5**	**5.1**	NR	0.8 U	0.8 U	0.8 U
Vanadium	**NS**	707	NR	4 U	3.2 J	7.1
Zinc	**2,000**	**2,640**	NR	16 U	6.7 J	11.9 J

Table 9
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
Dissolved Metals

AKRF Sample ID		TW-01_20221005	TW-02_20221003	TW-03_20221004	TW-04_20221004
Laboratory Sample ID		460-266877-3	460-266752-9	460-266826-5	460-266826-6
Date Sampled		10/05/2022	10/03/2022	10/04/2022	10/04/2022
Unit		µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1
Compound	**AWQSGV**	**CONC Q**	**CONC Q**	**CONC Q**	**CONC Q**
Aluminum	**NS**	40 U	40 U	233	797
Antimony	**3**	1.9 J	2 U	2 U	2 U
Arsenic	**25**	2 U	2 U	2 U	2 U
Barium	**1,000**	16.3	107	125	147
Beryllium	**3**	0.8 U	0.8 U	0.8 U	0.8 U
Cadmium	**5**	2 U	2 U	2 U	2 U
Calcium	**NS**	19,500	88,300	106,000	82,600
Chromium, Total	**50**	4 U	4 U	4 U	3.9 J
Cobalt	**NS**	0.91 J	1.7 J	1.1 J	2.5 J
Copper	**200**	4 U	4 U	2.5 J	4.9
Iron	**300**	120 U	120 U	**492**	**1,630**
Lead	**25**	1.2 U	1.2 U	3.8	1.1 J
Magnesium	**35,000**	4,050	34,500	**45,900**	30,400
Manganese	**300**	185	**450**	216	**1,020**
Mercury	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	**100**	9.9	3.9 J	2.4 J	4.9
Potassium	**NS**	4,310	3,590	4,950	7,610
Selenium	**10**	2.5 U	2.9	2.2 J	0.85 J
Silver	**50**	2 U	2 U	2 U	2 U
Sodium	**20,000**	**35,300**	**141,000**	**127,000**	**107,000**
Thallium	**0.5**	0.8 U	0.8 U	0.8 U	0.8 U
Vanadium	**NS**	4 U	4 U	2 J	2.8 J
Zinc	**2,000**	16 U	16 U	16 U	16 U

Table 10
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
PCBs

AKRF Sample ID		TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
Laboratory Sample ID		460-266877-3		460-266752-9		460-266826-5		460-266826-6	
Date Sampled		10/05/2022		10/03/2022		10/04/2022		10/04/2022	
Unit		µg/L		µg/L		µg/L		µg/L	
Dilution Factor		1		1		1		1	
Compound	**AWQSGV**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
PCB-1016 (Aroclor 1016)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1221 (Aroclor 1221)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1232 (Aroclor 1232)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1242 (Aroclor 1242)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1248 (Aroclor 1248)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1254 (Aroclor 1254)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1260 (Aroclor 1260)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1262 (Aroclor 1262)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
PCB-1268 (Aroclor 1268)	**NS**	0.4	U	0.4	U	0.4	U	0.4	U
Total PCBs	**0.09**	0.4	U	0.4	U	0.4	U	0.4	U

Table 11
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Groundwater Analytical Results
Pesticides

AKRF Sample ID		TW-01_20221005		TW-02_20221003		TW-03_20221004		TW-04_20221004	
Laboratory Sample ID		460-266877-3		460-266752-9		460-266826-5		460-266826-6	
Date Sampled		10/05/2022		10/03/2022		10/04/2022		10/04/2022	
Unit		µg/L		µg/L		µg/L		µg/L	
Dilution Factor		1		1		1		1	
Compound	**AWQSGV**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**	**CONC**	**Q**
Aldrin	**ND**	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.01**	0.02	U	0.02	U	0.02	U	0.02	U
Alpha Endosulfan	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.04**	0.02	U	0.02	U	0.02	U	0.02	U
Beta Endosulfan	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
cis-Chlordane	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	0.02	U	0.02	U	0.02	U	0.02	U
Dieldrin	**0.004**	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan Sulfate	**NS**	0.02	U	0.02	U	0.02	U	0.02	U
Endrin	**ND**	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Aldehyde	**5**	0.02	U	0.02	U	0.02	U	0.02	U
Endrin Ketone	**5**	0.02	U	0.02	U	0.02	U	0.02	U
Gamma Bhc (Lindane)	**0.05**	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor	**0.04**	0.02	U	0.02	U	0.02	U	0.02	U
Heptachlor Epoxide	**0.03**	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	**35**	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDD	**0.3**	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDE	**0.2**	0.02	U	0.02	U	0.02	U	0.02	U
P,P'-DDT	**0.2**	0.02	U	0.02	U	0.02	U	0.02	U
Toxaphene	**0.06**	0.5	U	0.5	U	0.5	U	0.5	U

Table 12
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Vapor Analytical Results
VOCs

AKRF Sample ID	SV-01_20221004	SV-01_20221004	SV-02_20221003	SV-02_20221003	SV-03_20221004	SV-04_20221003	SV-04_20221003
Laboratory Sample ID	200-65197-1	200-65197-1	200-65184-1	200-65184-1	200-65197-2	200-65184-2	200-65184-2
Date Sampled	10/04/2022	10/04/2022	10/03/2022	10/03/2022	10/04/2022	10/03/2022	10/03/2022
Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Dilution Factor	1	6.14	1	2	1	1	10
Compound	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1,2,2-Tetrachloroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.48 J	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,1,2-Trichloroethane	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
1,1-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,1-Dichloroethene	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR
1,2,4-Trichlorobenzene	3.7 U	NR	3.7 U	NR	3.7 U	3.7 U	NR
1,2,4-Trimethylbenzene	1.7	NR	1.8	NR	1.6	2.1	NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR	1.5 U	NR	1.5 U	1.5 U	NR
1,2-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
1,2-Dichloroethane	0.81 U	NR	0.81 U	NR	0.81 U	0.81 U	NR
1,2-Dichloropropane	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
1,2-Dichlorotetrafluoroethane	1.4 U	NR	1.4 U	NR	1.4 U	1.4 U	NR
1,3,5-Trimethylbenzene (Mesitylene)	0.33 J	NR	0.45 J	NR	0.39 J	0.49 J	NR
1,3-Butadiene	3.6	NR	1.6	NR	2.6	3.9	NR
1,3-Dichlorobenzene	1.9	NR	1.6	NR	1.5	2.2	NR
1,4-Dichlorobenzene	1.2 U	NR	1.2 U	NR	1.2 U	1.2 U	NR
2,2,4-Trimethylpentane	1.2	NR	1.5	NR	3.3	1.2	NR
2-Chlorotoluene	1 U	NR	1 U	NR	1 U	1 U	NR
2-Hexanone	2 U	NR	2 U	NR	2 U	1.6 J	NR
4-Ethyltoluene	0.33 J	NR	0.54 J	NR	0.39 J	0.73 J	NR
Acetone	85	NR	NR	170 D	82	NR	130 D
Allyl Chloride (3-Chloropropene)	1.6 U	NR	1.6 U	NR	1.6 U	1.6 U	NR
Benzene	2	NR	2.2	NR	2.2	4.1	NR
Benzyl Chloride	1 UT	NR	1 U	NR	1 UT	1 U	NR
Bromodichloromethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Bromoform	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Bromomethane	0.78 U	NR	0.78 U	NR	0.78 U	0.78 U	NR
Butane	12	NR	8.1	NR	9.9	12	NR
Carbon Disulfide	4.1	NR	1.6	NR	2.3	3	NR
Carbon Tetrachloride	0.32	NR	0.4	NR	0.26	0.24	NR
Chlorobenzene	0.92 U	NR	0.92 U	NR	0.92 U	0.92 U	NR
Chlorodifluoromethane	4	NR	8	NR	8.3	0.87 J	NR
Chloroethane	1.3 U	NR	1.3 U	NR	1.3 U	1.3 U	NR
Chloroform	8.6	NR	10	NR	9.5	5.9	NR
Chloromethane	0.8 J	NR	0.43 J	NR	0.41 J	0.32 J	NR
Cis-1,2-Dichloroethylene	NR	200 D	110	NR	96	22	NR
Cis-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Cyclohexane	1.1	NR	1	NR	0.65 J	1.1	NR
Cymene	3	NR	2.3	NR	1.9	2.7	NR
Dibromochloromethane	1.7 U	NR	1.7 U	NR	1.7 U	1.7 U	NR
Dichlorodifluoromethane	1.8 J	NR	0.8 J	NR	2.3 J	1.8 J	NR
Ethylbenzene	1.4	NR	4.2	NR	2.2	5.8	NR
Hexachlorobutadiene	2.1 U	NR	2.1 U	NR	2.1 U	2.1 U	NR
Isopropanol	24	NR	31	NR	24	24	NR
Isopropylbenzene (Cumene)	0.28 J	NR	0.98 U	NR	0.98 U	0.98 U	NR
M,P-Xylenes	5.3	NR	17	NR	8.5	23	NR
Methyl Ethyl Ketone (2-Butanone)	10	NR	6	NR	1.5 U	8.2	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.2 J	NR	2 U	NR	1.3 J	1 J	NR
Methyl Methacrylate	2 U	NR	2 U	NR	2 U	0.76 J	NR
Methylene Chloride	3.9	NR	0.65 J	NR	1.7 U	1.2 J	NR
Naphthalene	2.6 U	NR	2.6 U	NR	2.6 U	2.6 U	NR
N-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
N-Heptane	2.9	NR	2.4	NR	2.5	3.9	NR
N-Hexane	3.3	NR	3.7	NR	3.3	7.1	NR
N-Propylbenzene	0.26 J	NR	0.38 J	NR	0.27 J	0.53 J	NR
O-Xylene (1,2-Dimethylbenzene)	2	NR	3.8	NR	2.4	4.9	NR
Sec-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Styrene	0.41 J	NR	0.3 J	NR	0.85 U	0.42 J	NR
T-Butylbenzene	1.1 U	NR	1.1 U	NR	1.1 U	1.1 U	NR
Tert-Butyl Alcohol	14 J	NR	8.6 J	NR	36	14 J	NR
Tert-Butyl Methyl Ether	0.72 U	NR	0.72 U	NR	0.72 U	0.72 U	NR
Tetrachloroethylene (PCE)	NR	780 D	210	NR	130	NR	1,900 D
Tetrahydrofuran	15 U	NR	15 U	NR	15 U	15 U	NR
Toluene	11	NR	24	NR	6.1	29	NR
Trans-1,2-Dichloroethene	1.1	NR	1	NR	0.61 J	0.79 U	NR
Trans-1,3-Dichloropropene	0.91 U	NR	0.91 U	NR	0.91 U	0.91 U	NR
Trichloroethylene (TCE)	30	NR	34	NR	45	28	NR
Trichlorofluoromethane	1.6	NR	2	NR	1.4	1 J	NR
Vinyl Bromide	0.87 U	NR	0.87 U	NR	0.87 U	0.87 U	NR
Vinyl Chloride	0.2 U	NR	0.2 U	NR	0.2 U	0.2 U	NR

Table 12
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Soil Vapor Analytical Results
VOCs

AKRF Sample ID	SV-05_20221004	SV-05_20221004
Laboratory Sample ID	200-65197-3	200-65197-3
Date Sampled	10/04/2022	10/04/2022
Unit	µg/m^3	µg/m^3
Dilution Factor	1	2
Compound	**CONC Q**	**CONC Q**
1,1,1-Trichloroethane	0.33 J	NR
1,1,2,2-Tetrachloroethane	1.4 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.56 J	NR
1,1,2-Trichloroethane	1.1 U	NR
1,1-Dichloroethane	0.81 U	NR
1,1-Dichloroethene	0.2 U	NR
1,2,4-Trichlorobenzene	3.7 U	NR
1,2,4-Trimethylbenzene	1.5	NR
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NR
1,2-Dichlorobenzene	1.2 U	NR
1,2-Dichloroethane	0.81 U	NR
1,2-Dichloropropane	0.92 U	NR
1,2-Dichlorotetrafluoroethane	1.4 U	NR
1,3,5-Trimethylbenzene (Mesitylene)	0.38 J	NR
1,3-Butadiene	6.6	NR
1,3-Dichlorobenzene	2.6	NR
1,4-Dichlorobenzene	1.2 U	NR
2,2,4-Trimethylpentane	3.5	NR
2-Chlorotoluene	1 U	NR
2-Hexanone	2 U	NR
4-Ethyltoluene	0.39 J	NR
Acetone	87	NR
Allyl Chloride (3-Chloropropene)	1.6 U	NR
Benzene	3.9	NR
Benzyl Chloride	1 UT	NR
Bromodichloromethane	1.3 U	NR
Bromoform	2.1 U	NR
Bromomethane	0.78 U	NR
Butane	25	NR
Carbon Disulfide	5.4	NR
Carbon Tetrachloride	0.28	NR
Chlorobenzene	0.92 U	NR
Chlorodifluoromethane	2.2	NR
Chloroethane	1.3 U	NR
Chloroform	27	NR
Chloromethane	0.27 J	NR
Cis-1,2-Dichloroethylene	45	NR
Cis-1,3-Dichloropropene	0.91 U	NR
Cyclohexane	2	NR
Cymene	3.6	NR
Dibromochloromethane	1.7 U	NR
Dichlorodifluoromethane	2.3 J	NR
Ethylbenzene	2.9	NR
Hexachlorobutadiene	2.1 U	NR
Isopropanol	11 J	NR
Isopropylbenzene (Cumene)	0.39 J	NR
M,P-Xylenes	9	NR
Methyl Ethyl Ketone (2-Butanone)	11	NR
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.7 J	NR
Methyl Methacrylate	2 U	NR
Methylene Chloride	1.7 U	NR
Naphthalene	2.6 U	NR
N-Butylbenzene	1.1 U	NR
N-Heptane	5.8	NR
N-Hexane	7	NR
N-Propylbenzene	0.28 J	NR
O-Xylene (1,2-Dimethylbenzene)	2.6	NR
Sec-Butylbenzene	1.1 U	NR
Styrene	0.85 U	NR
T-Butylbenzene	1.1 U	NR
Tert-Butyl Alcohol	28	NR
Tert-Butyl Methyl Ether	0.72 U	NR
Tetrachloroethylene (PCE)	NR	390 D
Tetrahydrofuran	15 U	NR
Toluene	5.8	NR
Trans-1,2-Dichloroethene	0.79 U	NR
Trans-1,3-Dichloropropene	0.91 U	NR
Trichloroethylene (TCE)	25	NR
Trichlorofluoromethane	3.3	NR
Vinyl Bromide	0.87 U	NR
Vinyl Chloride	0.2 U	NR

Tables 1-12
IKOS Senior Living
31-07 31st Street
Queens, NY
Phase II Investigation Analytical Results
Notes

DEFINITIONS

D	:	Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.
J	:	The concentration given is an estimated value.
ND	:	The standard is a non-detectable concentration by the approved analytical method.
NR	:	Not reported.
NS	:	No standard.
P	:	Indicates a pesticide/aroclor target analyte had a percent difference greater than 25% between the two gc columns. The lower of the two results is reported.
T	:	Indicates that a quality control parameter has exceeded laboratory limits.
U	:	The analyte was not detected at the indicated concentration.
mg/kg	:	milligrams per kilogram
µg/L	:	micrograms per liter
µg/m^3	:	micrograms per cubic meter of air

STANDARDS

Part 375 Soil Cleanup Objectives	:	Soil Cleanup Objectives listed in New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations [6 New York Codes, Rules and Regulations (NYCRR) Part 375].

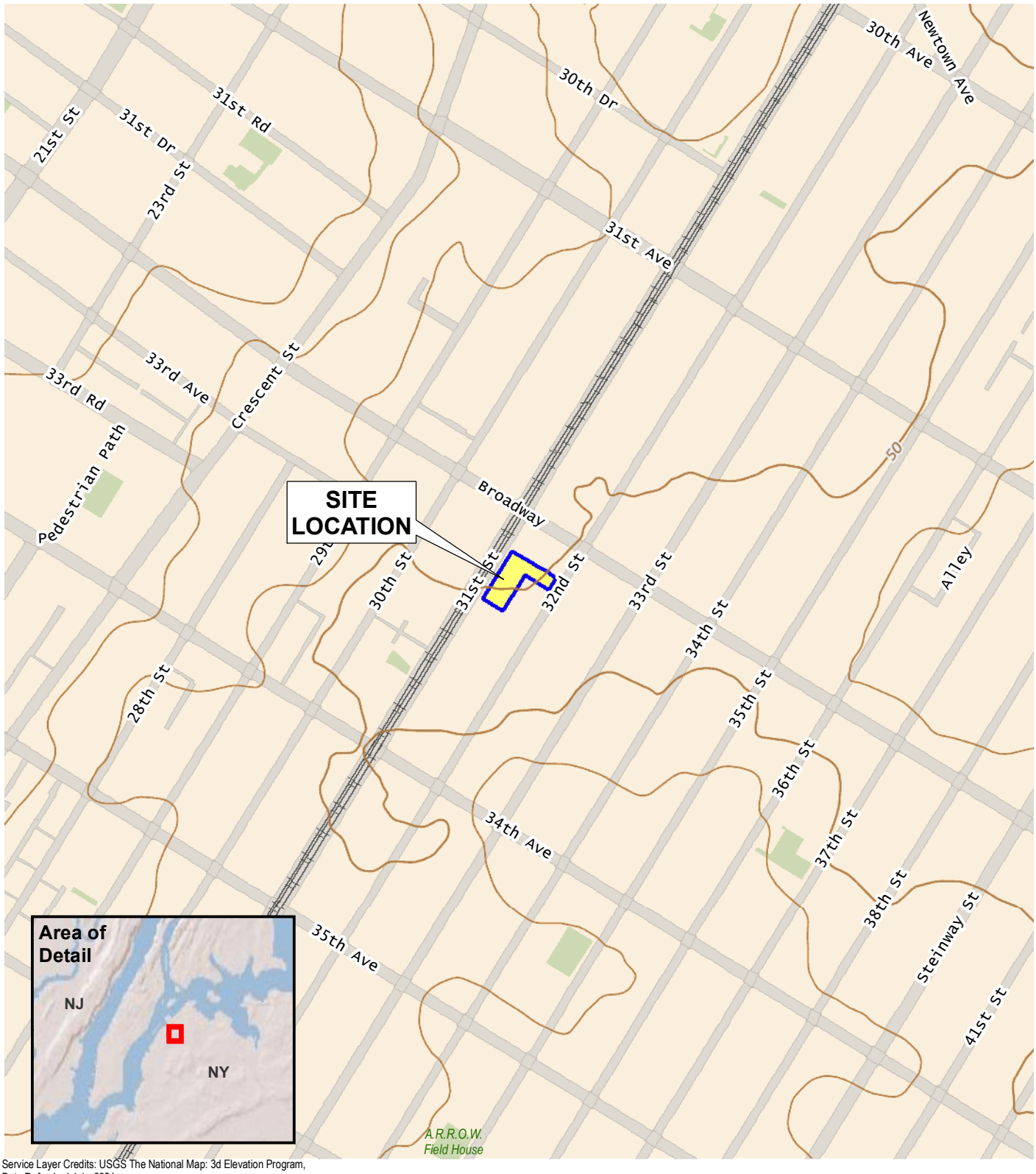
Note: Endosulfans ABS represents the detected sum of Endosulfan I, Endosulfan II, and Endosulfan Sulfate.

Exceedances of Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray shading

NYSDEC Class GA AWQSGVs	:	New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed July, 2021

0 600 1,200

SCALE IN FEET

AKRF

440 Park Avenue South, New York, NY 10016

31-07 31st Street
Queens, New York

SITE LOCATION

DATE
11/3/2022

PROJECT NO.
210124

FIGURE
1

©2022 AKRF O:\Projects\210124 - IKOS SENIOR LIVING\SAR\210124 Fig 1 Site Loc Map.mxd 11/3/2022 12:19:30 PM jszalus



LEGEND

- APPROXIMATE SITE BOUNDARY
- 25 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- PROPOSED BUILDING
- PROPOSED CELLAR
- PROPOSED CRAWLSPACE
- EXISTING MONITORING WELL LOCATION
- SOIL BORING
- SOIL BORING/SOIL VAPOR POINT
- SOIL BORING/TEMPORARY WELL
- SOIL VAPOR POINT

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database
Aerial Source:
2020 New York State ITS GIS Orthoimagery

0 40 80
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

31-07 31st Street
Queens, New York

SITE PLAN AND SAMPLE LOCATIONS

DATE
11/3/2022
PROJECT NO.
210124
FIGURE
2

©2022 AKRF O:\Projects\210124 - IKOS SENIOR LIVING\SAR\ph II\210124 Fig 2 Site Plan and Sample Locations.mxd 11/3/2022 3:25:42 PM iszalus

APPENDIX A
GEOPHYSICAL REPORT

GEOPHYSICAL INVESTIGATION REPORT

PERFORMED AT:

31-07 31st Street,
Astoria, Queens , NY

PREPARED FOR:

Adrianna Bosco
AKRF
440 Park Avenue South 7th Floor,
New York ,NY 10016
Reporting: abosco@akrf.com

PREPARED BY:

Aidan O'Sullivan
Geophysical Technician
Enviroprobe Service, Inc.
81 Marter Avenue
Mount Laurel, NJ 08054
(856) 858-8584
(800) 596-7472

October 03, 2022

1.0 INTRODUCTION

Enviroprobe Service, Inc. (Enviroprobe) is an environmental investigation services firm which provides monitoring well installation (HSA), Geoprobe (DPT) drilling services and Environmental & Engineering Geophysics (EEG) services to the environmental consulting and engineering community.

Enviroprobe conducted a subsurface geophysical investigation at the subject property within client-specified areas of concern. Due to conditions and objectives, the investigation utilized a GSSI UtilityScan HS cart-mounted Ground Penetrating Radar (GPR) unit with a 350 MHz antenna, a Fisher TW-6 metallic locator, a Radiodetection RD7000TX3 multi-frequency transmitter, and a Radiodetection RD7000PXL receiver.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 2,000 MHz) to acquire subsurface information. An EM wave is propagated downward into the ground by a transmitting antenna. Where abrupt changes in electrical properties occur in the subsurface, a portion of the energy is reflected back to the surface. This reflected wave is detected by a receiver antenna and transmitted to a control unit for real time processing and display. The penetration depth of the GSSI unit varies from several inches to tens of feet according to site-specific conditions. The penetration depth decreases with increased soil conductivity. The penetration depth is the greatest in ice, dry sands, and fine gravels. Clayey, highly saline or saturated soils, areas covered by concrete, foundry slag, or other highly conductive materials greatly reduce GPR penetration. GPR is a method that is commonly used for environmental, engineering, archaeological, and other shallow investigations.

The Fisher TW-6 metallic locator is designed to find pipes, cables and other metallic objects such as underground storage tanks (USTs). The TW-6 transmitter generates an electromagnetic field that induces electrical currents in the subsurface. These currents produce a secondary electromagnetic field that is measured by the TW-6 receiver. One surveyor can carry both the transmitter and receiver together to search for underground metallic objects, although the TW-6 response can also be affected by the electrical properties of non-metallic materials in the subsurface.

The Radiodetection (RD) transmitter and receiver are commonly used for pipe and cable locating. The multi-frequency transmitter can be directly connected, clamped, or used to induce a signal in a target line while the multi-frequency receiver is used to measure the signal from energized lines.

2.0 SCOPE OF WORK

On October 03, 2022, a geophysical technician from Enviroprobe Service Inc. was mobilized to the subject property to perform a geophysical investigation. The purpose of the investigation was to clear boring locations, detect possible anomalies and designate underground conduits/utilities in the client selected exterior portions of the subject property. The ground surface of the survey area consisted of asphalt and concrete.

3.0 SURVEY RESULTS

The survey was conducted using a cart-mounted GPR unit, a Fisher TW-6 metallic locator, and a RD unit. The RD unit was used to trace common utilities from sources in and around the survey area. The RD receiver was also used in the passive mode to search for live underground electrical power cables and other utilities emitting 60Hz electromagnetic signals. When possible, the locations of utilities were confirmed with the GPR. Designated utilities were marked on-site with spray paint using the following colors: green – sanitary sewer & storm drainage, pink – vent lines & unknown utilities (See Figure Below).



The GPR and TW-6 were used in a grid pattern over all client specified areas of the site. Based on the results of the GPR and TW-6 surveys, no metallic anomalies That were consistent with UST's, vent piping, or product piping were detected on site (See Figure above)

4.0 LIMITATIONS

The client-selected areas contained obstructions including materials, Reinforced concrete and vehicles. These objects prevented a thorough investigation of the spaces beneath and immediately adjacent to them.

Due to surface conditions and subsurface content, the GPR signal penetration was estimated at less than 4 ft in the majority of the survey area. This penetration was reduced in areas of concrete cover.

The TW-6 survey was kept up to 6 feet away from above ground objects containing metals depending on the sizes, shapes and positions of the metal objects. The TW-6 survey was not effective in areas with reinforced concrete.

Due to the dielectric properties of the subsurface, clay, plastic polymer, and fiberglass utilities may not have been detected.

All field services were conducted in compliance with the industry standard of care guidelines found in ASCE 38-02 (Level B).

5.0 WARRANTIES

The field observations and measurements reported herein are considered sufficient in detail and scope for this project. Enviroprobe Service, Inc. warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental engineering methods. There is a possibility that conditions may exist which could not be identified within the scope of this project and were not apparent during the site activities performed for this project.

Enviroprobe represents that the services were performed in a manner consistent with that level of care and skill ordinarily exercised by environmental consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

Enviroprobe Service, Inc. believes that the information provided in this report is reliable. However, Enviroprobe cannot warrant or guarantee that the information provided by others is complete or accurate. No other warranties or guarantees are implied or expressed.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling around underground structures and utilities since GPR data can only be used for estimation purposes and GPR data is subject to

misinterpretation. Enviroprobe can not guarantee that utilities, post-tension cables, and/or rebar will not be incurred during drilling, cutting, coring, or excavating activities.

This report was prepared pursuant to the contract Enviroprobe has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Enviroprobe and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between Enviroprobe and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Enviroprobe.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Enviroprobe contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

APPENDIX B
PHOTOGRAPHIC LOG



Photograph 1. Locating subsurface utilities during the geophysical survey.



Photograph 2. Geoprobe soil boring advancement at SB-02.



Photograph 3. Installation of SV-02 and collecting a groundwater sample from TW-02.



Photograph 4. Soil cores collected from SB-01.

APPENDIX C
FIELD LOGS

SOIL BORING LOG

31-07 31st Street
Astoria, NY
AKRF Project Number: 210124

Soil Boring ID: **SB-01**
Sheet 1 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	60°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 7:30 **Finish Time:** 8:00
Date: 10/05/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	37	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-01_0-2_20221005
2							
3		Bottom 34": Brown coarse SAND, trace fine Gravel (FILL).	ND	DRY	ND	ND	
4							
5							
6	42	Top 15": Brown coarse SAND, trace fine Gravel (FILL).	ND	DRY	ND	ND	
7		Next 6": Dark brown fine SAND, trace fine Gravel (FILL).	ND	DRY	ND	ND	
8							
9		Bottom 21": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
10							
11	36	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16	43	Top 10": Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18		Bottom 33": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-01 screened from 30 to 40 feet. Groundwater measured at approximately 36.61 feet in TW-01.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: SB-01 Sheet 2 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	60°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 7:30 **Finish Time:** 8:00
Date: 10/05/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21	46	Top 20": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
22		Next 7": Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
23		Bottom 19": Light brown coarse fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
24							
25							
26	54	Light brown coarse fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
27							
28							
29							
30							
31	52	Brown coarse SAND, trace fine Gravel.	ND	Wet @ 33"	ND	ND	SB-01_31-33_20221005
32							
33							
34							
35							
36	38	Brown coarse SAND, trace fine Gravel.	ND	WET	ND	ND	
37							
38							
39							
40							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-01 screened from 30 to 40 feet. Groundwater measured at approximately 36.61 feet in TW-01.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: SB-02 Sheet 1 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 8:00 **Finish Time:** 9:00

Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	34	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-02_0-2_20221003
2		Next 7": Dark Brown SAND, little fine Gravel, trace Silt, Brick (FILL).	ND	DRY	ND	ND	
3		Bottom 24": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
4							
5							
6	44	Top 18": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7							
8		Bottom 26": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
9							
10							
11	56	Top 44": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
12							
13							
14		Bottom 14": Brown fine SAND.	ND	DRY	ND	ND	
15							
16	60	Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-02 screened from 30 to 40 feet. Groundwater measured at approximately 30.31 feet in TW-02.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: SB-02 Sheet 2 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 8:00 **Finish Time:** 9:00
Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	58	Brown fine SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	51	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
31 32 33 34 35	46	Brown coarse SAND, trace fine Gravel.	ND	Wet @ 33"	ND	ND	SB-02_31-33_2022 1003
36 37 38 39 40	58	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-02 screened from 30 to 40 feet. Groundwater measured at approximately 30.31 feet in TW-02.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 1 of 2

SB-03

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 13:15 **Finish Time:** 14:10

Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	44	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-03_0-2_20221003
2		Next 30": Dark Brown fine SAND, little fine Gravel, trace Brick (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 9": Brown coarse SAND (FILL).	ND	DRY	ND	ND	
5							
6	37	Top 7": Brown coarse SAND (FILL).	ND	DRY	ND	ND	
7		Next 9": Dark brown fine SAND, little fine Gravel (FILL).	ND	DRY	ND	ND	
8							
9		Next 19": Brown coarse SAND.	ND	DRY	ND	ND	
10							
11	42	Top 19": Brown coarse SAND.	ND	DRY	ND	ND	
12							
13		Bottom 23": Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
14							
15							
16	41	Top 16": Brown SAND, trace fine Gravel.	ND	DRY	ND	ND	
17		Bottom 29": Brown coarse SAND.	ND	DRY	ND	ND	
18							
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for Installed 1" temporary well TW-03 screened from 30 to 40 feet. Groundwater measured at approximately 33.8 feet in TW-03.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124		Soil Boring ID Sheet 2 of 2	SB-03
AKRF 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822 DT DPP	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 13:15	Finish Time: 14:10
	Driller:	AARCO		
	Weather:	50°F, Rain	Date: 10/03/2022	
	Logged By:	TG, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	41	Brown coarse SAND.	ND	DRY	ND	ND	
26 27 28 29 30	36	Brown coarse SAND.	ND	DRY	ND	ND	
31 32 33 34 35	39	Brown fine SAND.	ND	Wet @ 33"	ND	ND	SB-03_31-33_2022
36 37 38 39 40	60	Brown fine SAND.	ND	WET	ND	ND	

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for Installed 1" temporary well TW-03 screened from 30 to 40 feet. Groundwater measured at approximately 33.8 feet in TW-03.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124		Soil Boring ID Sheet 1 of 2	SB-04
AKRF 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822 DT DPP	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 11:00	Finish Time: 11:50
	Driller:	AARCO		
	Weather:	50°F, Rain	Date: 10/03/2022	
	Logged By:	TG, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	33	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-04_0-2_20221003
2		Next 10": Dark brown fine SAND, little fine Gravel, trace silt (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 20": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
5							
6	28	Top 6": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7							
8		Bottom 22": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
9							
10							
11	29	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16	28	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-04 screened from 35 to 45 feet. Groundwater measured at approximately 36.43 feet in TW-04.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 2 of 2	SB-04

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 11:00 **Finish Time:** 11:50
Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	41	Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	0	No recovery	N/A	N/A	N/A	N/A	
31 32 33 34 35	55	Top 26": Brown coarse SAND, some fine Gravel. Bottom 29": Light brown coarse SAND.	ND ND	DRY Wet @ 34'	ND ND	ND ND	SB-04_32-34_20221003
36 37 38 39 40	36	Brown coarse SAND, some fine Gravel.	ND	WET	ND	ND	
41 42 43 44 45	44	Brown coarse SAND, some fine Gravel.	ND	WET	ND	ND	

Notes: Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals (total and dissolved for groundwater).

Installed 1" temporary well TW-04 screened from 35 to 45 feet. Groundwater measured at approximately 36.43 feet in TW-04.

End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 1 of 2

SB-05

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 10:55 **Finish Time:** 11:25

Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	34	Top 6": ASPHALT.	ND	DRY	ND	ND	SB-05_0-2_20221004
2		Next 14": Dark brown fine SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 14": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
5							
6	32	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
7							
8							
9							
10							
11	48	Top 22": Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13		Bottom 26": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
14							
15							
16	60	Top 8"; Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19		Bottom 52": Light brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
20							

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID Sheet 2 of 2

SB-05

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 10:55 **Finish Time:** 11:25

Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	25	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28	44	Top 30": Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
29 30		Bottom 14": Light brown fine SAND, some fine Gravel	ND	DRY	ND	ND	SB-05_29-31_20221004
31 32 33 34 35	40	Top 18": Brown coarse SAND, trace fine Gravel. Bottom 22": Light brown coarse SAND, trace fine Gravel.	ND ND	DRY Wet @ 31'	ND ND	ND ND	
36 37 38 39 40	31	Brown coarse SAND, trace fine Gravel.	ND	WET	ND	ND	

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street
Astoria, NY
AKRF Project Number: 210124

Soil Boring ID
Sheet 1 of 2

SB-06

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 8:55 **Finish Time:** 9:30
Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	40	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-06_0-2_20221004
2		Next 14": Dark brown fine SAND, little fine Gravel, trace Brick (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 23": Brown coarse SAND, little fine Gravel (FILL).	ND	DRY	ND	ND	
5							
6	42	Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7							
8							
9							
10							
11	39	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16	36	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street Astoria, NY AKRF Project Number: 210124	Soil Boring ID: **SB-06** Sheet 2 of 2

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	40°F, Rain
Logged By:	TG, AKRF

Drilling

Start Time: 8:55 **Finish Time:** 9:30

Date: 10/04/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	60	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	31	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	SB-06_29-31_20221004
31 32 33 34 35	30	Brown coarse SAND, trace fine Gravel	ND	Wet @ 31'	ND	ND	
36 37 38 39 40	48	Top 21": Brown coarse SAND, trace fine Gravel. Bottom 27": Brown coarse SAND.	ND ND	WET WET	ND ND	ND ND	

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 31 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

31-07 31st Street
Astoria, NY
AKRF Project Number: 210124

Soil Boring ID
Sheet 1 of 2

SB-07

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822 DT DPP
Sampling Method:	5' Macrocore
Driller:	AARCO
Weather:	50°F, Rain
Logged By:	TG, AKRF

Drilling
Start Time: 9:45 **Finish Time:** 10:30
Date: 10/03/2022

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	40	Top 3": ASPHALT.	ND	DRY	ND	ND	SB-07_0-2_20221003
2		Next 11": Dark brown SAND, little fine Gravel, trace Silt, Brick (FILL).	ND	DRY	ND	ND	
3		Next 7": Brown SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
4							
5		Bottom 19": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
6	36	Top 12": Brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
7		Bottom 24": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
8							
9							
10							
11	40	Top 15": Light brown coarse SAND, some fine Gravel (FILL).	ND	DRY	ND	ND	
12		Bottom 25": Brown fine SAND.	ND	DRY	ND	ND	
13							
14							
15							
16	38	Brown fine SAND.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 34 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG	31-07 31st Street Astoria, NY AKRF Project Number: 210124		Soil Boring ID Sheet 2 of 2	SB-07
AKRF 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822 DT DPP	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 9:45	Finish Time: 10:30
	Driller:	AARCO		
	Weather:	50°F, Rain	Date: 10/03/2022	
	Logged By:	TG, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 22 23 24 25	47	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
26 27 28 29 30	25	Brown coarse SAND, trace fine Gravel.	ND	DRY	ND	ND	
31 32 33 34 35	52	Brown coarse SAND, trace fine Gravel.	ND	Wet @ 34'	ND	ND	SB-07_32-34_20221003
36 37 38 39 40	52	Brown coarse SAND, trace fine Gravel.	ND	WET	ND	ND	

Notes: Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
Groundwater encountered at 34 feet below grade during boring advancement.
End of soil boring at 40 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/4/2022	**Weather:**	40 °F, Rain

Sample Setup

Vapor Point Depth:	168	Inches	**Total Time of Purge:**	10min
Purging Pump:	Gilair Plus		**Purge Volume:**	2L
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND ppm
			Helium Concentration:	0 %

Sample Identification

Soil Vapor Point ID:	**SV-01**	**SUMMA® Canister ID:**	**5630**
Flow Controller ID:	**10655**	**Soil Vapor Sample ID:**	**SV-01_20221004**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	12:30	-30	ND	Open air parking lot / rain
Time Halfway:	13:30	-25	ND	Issue with regulator. AKRF notified laboratory for guidance.
Time Stopped:	15:30	-14	ND	Stopped @ -14 in/Hg as per instruction from lab project manager

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-01 20220713 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/3/2022	**Weather:**	50 °F, Rain

Sample Setup

Vapor Point Depth:	168	Inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-02**	**SUMMA® Canister ID:**	**6266**
Flow Controller ID:	**11564**	**Soil Vapor Sample ID:**	**SV-02_20221003**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	12:00	-30	ND	Open air parking / adjacent to elevated subway station / rain
Time Halfway:	13:00	-9	ND	Premature vacuum
Time Stopped:	13:10	-5	ND	Premature vacuum

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-02 20221003 collected in a C-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/4/2022	**Weather:**	40 °F, Rain

Sample Setup

Vapor Point Depth:	168	Inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-03**	**SUMMA® Canister ID:**	**3642**
Flow Controller ID:	**10652**	**Soil Vapor Sample ID:**	**SV-03_20221004**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:00	-30	ND	Open air parking lot / rain
Time Halfway:	10:00	-20	ND	Open air parking lot / rain
Time Stopped:	13:50	-5	ND	Open air parking lot / rain

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-03 20221004 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/3/2022	**Weather:**	50 °F, Rain

Sample Setup

Vapor Point Depth:	168	inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-04**	**SUMMA® Canister ID:**	**5058**
Flow Controller ID:	**7051**	**Soil Vapor Sample ID:**	**SV-04_20221003**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	13:30	-30	ND	Open air parking lot / rain
Time Halfway:	14:30	-19	ND	Open air parking lot / rain
Time Stopped:	15:30	-7	ND	Open air parking lot / rain

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-04 20221003 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210124	**Point Installed By:**	AARCO
Project Location:	31-07 31st Street, Astoria, NY	**Installation Method:**	DPP
Client:	Mega Development LLC	**Sampled By:**	T. Giordano
Date:	10/4/2022	**Weather:**	40 °F, Rain

Sample Setup

Vapor Point Depth:	168	inches	**Total Time of Purge:**	10min	
Purging Pump:	Gilair Plus		**Purge Volume:**	2L	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	ND	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**SV-06**	**SUMMA® Canister ID:**	**6309**
Flow Controller ID:	**3979**	**Soil Vapor Sample ID:**	**SV-05_20221004**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	12:00	-30	ND	Open air parking lot / rain
Time Halfway:	13:00	-19	ND	Open air parking lot / rain
Time Stopped:	15:30	-8	ND	Open air parking lot / rain

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample SV-05_20221004 collected in a 6-L SUMMA® canister using a 2-hour flow controller.

APPENDIX D
LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-65184-1
Client Project/Site: Ikos Senior Living

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco

Melissa Haas

Authorized for release by:
10/11/2022 9:41:12 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

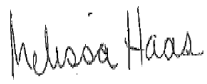
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/11/2022 9:41:12 AM

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Definitions/Glossary

Client: AKRF Inc
Job ID: 200-65184-1
Project/Site: Ikos Senior Living

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 200-65184-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Ikos Senior Living

Report Number: 200-65184-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/4/2022 1:30 PM and 10/5/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANICS (AMBIENT AIR)

Samples SV-02_20221003 (200-65184-1), SV-01_20221004 (200-65197-1), SV-04_20221003 (200-65184-2), SV-03_20221004 (200-65197-2) and SV-05_20221004 (200-65197-3) were analyzed for Volatile Organics (Ambient Air) in accordance with EPA Method TO15. The samples were analyzed on 10/06/2022 and 10/07/2022.

The continuing calibration verification (CCV) associated with batch 200-184402 recovered above the upper control limit for Benzyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SV-01_20221004, SV-03_20221004 and SV-05_20221004.

The laboratory control sample (LCS) for analytical batch 200-184402 recovered outside control limits for the following analytes: Benzyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Client Sample ID: SV-02_20221003

Lab Sample ID: 200-65184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.80	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	8.0		1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.43	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	8.1		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	1.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.0		1.1	0.29	ug/m3	1		TO-15	Total/NA
Acetone	160	E	12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	31		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.6		1.6	0.40	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.65	J	1.7	0.59	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	8.6	J	15	3.6	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	1.0		0.79	0.35	ug/m3	1		TO-15	Total/NA
n-Hexane	3.7		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	6.0		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	110		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	10		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.0		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.5		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	2.2		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	2.4		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	34		0.20	0.13	ug/m3	1		TO-15	Total/NA
Toluene	24		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	210		1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.2		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	17		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	3.8		0.87	0.41	ug/m3	1		TO-15	Total/NA
Styrene	0.30	J	0.85	0.14	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.38	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.54	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.45	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.8		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	2.3		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.6		1.2	0.54	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	2.0	J D	4.9	1.1	ug/m3	2		TO-15	Total/NA
Chlorodifluoromethane - DL	8.0	D	3.5	0.78	ug/m3	2		TO-15	Total/NA
n-Butane - DL	13	D	2.4	0.90	ug/m3	2		TO-15	Total/NA
1,3-Butadiene - DL	1.6	D	0.88	0.17	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane - DL	2.0	J D	2.2	0.58	ug/m3	2		TO-15	Total/NA
Acetone - DL	170	D	24	9.5	ug/m3	2		TO-15	Total/NA
Isopropyl alcohol - DL	31	D	25	4.8	ug/m3	2		TO-15	Total/NA
Carbon disulfide - DL	1.6	J D	3.1	0.81	ug/m3	2		TO-15	Total/NA
tert-Butyl alcohol - DL	10	J D	30	7.3	ug/m3	2		TO-15	Total/NA
trans-1,2-Dichloroethene - DL	1.0	J D	1.6	0.70	ug/m3	2		TO-15	Total/NA
n-Hexane - DL	3.8	D	3.5	1.6	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	6.1	D	2.9	1.0	ug/m3	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	110	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Chloroform - DL	10	D	2.0	0.45	ug/m3	2		TO-15	Total/NA
Cyclohexane - DL	0.96	J D	1.4	0.24	ug/m3	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	1.4	J D	1.9	0.33	ug/m3	2		TO-15	Total/NA
Benzene - DL	2.2	D	1.3	0.47	ug/m3	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-02_20221003 (Continued)

Lab Sample ID: 200-65184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Heptane - DL	2.3	D	1.6	0.48	ug/m3	2		TO-15	Total/NA
Trichloroethene - DL	33	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Toluene - DL	24	D	1.5	0.70	ug/m3	2		TO-15	Total/NA
Tetrachloroethene - DL	220	D	2.7	0.37	ug/m3	2		TO-15	Total/NA
Ethylbenzene - DL	4.3	D	1.7	0.87	ug/m3	2		TO-15	Total/NA
m,p-Xylene - DL	16	D	4.3	1.5	ug/m3	2		TO-15	Total/NA
o-Xylene - DL	3.9	D	1.7	0.82	ug/m3	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	1.8	J D	2.0	0.46	ug/m3	2		TO-15	Total/NA
4-Isopropyltoluene - DL	2.4	D	2.2	0.43	ug/m3	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	1.6	J D	2.4	1.1	ug/m3	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.16	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.21	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	3.4		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.70		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.36		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Acetone	69	E	5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	13		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.50		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.19	J	0.50	0.17	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	2.8	J	5.0	1.2	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.26		0.20	0.088	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.1		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	2.0		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	27		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	2.1		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.29		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.33		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	0.70		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.59		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	6.3		0.037	0.024	ppb v/v	1		TO-15	Total/NA
Toluene	6.4		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	32		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.96		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.9		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.87		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Styrene	0.070	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.076	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.11	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.092	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.36		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.42		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.27		0.20	0.089	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	0.41	J D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
Chlorodifluoromethane - DL	2.3	D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
n-Butane - DL	5.3	D	1.0	0.38	ppb v/v	2		TO-15	Total/NA
1,3-Butadiene - DL	0.72	D	0.40	0.076	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane - DL	0.35	J D	0.40	0.10	ppb v/v	2		TO-15	Total/NA
Acetone - DL	73	D	10	4.0	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-02_20221003 (Continued)

Lab Sample ID: 200-65184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol - DL	12	D	10	2.0	ppb v/v	2		TO-15	Total/NA
Carbon disulfide - DL	0.52	J D	1.0	0.26	ppb v/v	2		TO-15	Total/NA
tert-Butyl alcohol - DL	3.4	J D	10	2.4	ppb v/v	2		TO-15	Total/NA
trans-1,2-Dichloroethene - DL	0.26	J D	0.40	0.18	ppb v/v	2		TO-15	Total/NA
n-Hexane - DL	1.1	D	1.0	0.46	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	2.1	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	27	D	0.10	0.066	ppb v/v	2		TO-15	Total/NA
Chloroform - DL	2.1	D	0.40	0.092	ppb v/v	2		TO-15	Total/NA
Cyclohexane - DL	0.28	J D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	0.31	J D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
Benzene - DL	0.69	D	0.40	0.15	ppb v/v	2		TO-15	Total/NA
n-Heptane - DL	0.56	D	0.40	0.12	ppb v/v	2		TO-15	Total/NA
Trichloroethene - DL	6.1	D	0.074	0.048	ppb v/v	2		TO-15	Total/NA
Toluene - DL	6.5	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene - DL	33	D	0.40	0.054	ppb v/v	2		TO-15	Total/NA
Ethylbenzene - DL	0.98	D	0.40	0.20	ppb v/v	2		TO-15	Total/NA
m,p-Xylene - DL	3.7	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
o-Xylene - DL	0.91	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	0.36	J D	0.40	0.094	ppb v/v	2		TO-15	Total/NA
4-Isopropyltoluene - DL	0.45	D	0.40	0.078	ppb v/v	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	0.27	J D	0.40	0.18	ppb v/v	2		TO-15	Total/NA

Client Sample ID: SV-04_20221003

Lab Sample ID: 200-65184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.8	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.87	J	1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.32	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	12		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	3.9		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.0	J	1.1	0.29	ug/m3	1		TO-15	Total/NA
Acetone	160	E	12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	24		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	3.0		1.6	0.40	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.2	J	1.7	0.59	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	14	J	15	3.6	ug/m3	1		TO-15	Total/NA
n-Hexane	7.1		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	8.2		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	22		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	5.9		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.1		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.24		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.2		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	4.1		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	3.9		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	28		0.20	0.13	ug/m3	1		TO-15	Total/NA
Methyl methacrylate	0.76	J	2.0	0.66	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	29		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1400	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	1.6	J	2.0	0.82	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-04_20221003 (Continued)

Lab Sample ID: 200-65184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5.8		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	23		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	4.9		0.87	0.41	ug/m3	1		TO-15	Total/NA
Styrene	0.42	J	0.85	0.14	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.53	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.73	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.49	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.1		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	2.7		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	2.2		1.2	0.54	ug/m3	1		TO-15	Total/NA
n-Butane - DL	11	J D	12	4.5	ug/m3	10		TO-15	Total/NA
1,3-Butadiene - DL	2.7	J D	4.4	0.84	ug/m3	10		TO-15	Total/NA
Acetone - DL	130	D	120	48	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	16	D	2.0	1.3	ug/m3	10		TO-15	Total/NA
Chloroform - DL	4.4	J D	9.8	2.2	ug/m3	10		TO-15	Total/NA
Benzene - DL	4.1	J D	6.4	2.4	ug/m3	10		TO-15	Total/NA
n-Heptane - DL	3.0	J D	8.2	2.4	ug/m3	10		TO-15	Total/NA
Trichloroethene - DL	23	D	2.0	1.3	ug/m3	10		TO-15	Total/NA
Toluene - DL	24	D	7.5	3.5	ug/m3	10		TO-15	Total/NA
Tetrachloroethene - DL	1900	D	14	1.8	ug/m3	10		TO-15	Total/NA
Ethylbenzene - DL	6.1	J D	8.7	4.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene - DL	18	J D	22	7.4	ug/m3	10		TO-15	Total/NA
o-Xylene - DL	5.4	J D	8.7	4.1	ug/m3	10		TO-15	Total/NA
4-Isopropyltoluene - DL	2.1	J D	11	2.1	ug/m3	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.35	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.24	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.16	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	5.0		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	1.8		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.18	J	0.20	0.052	ppb v/v	1		TO-15	Total/NA
Acetone	69	E	5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	9.9		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.96		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.35	J	0.50	0.17	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	4.5	J	5.0	1.2	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.0		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	2.8		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	5.5		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	1.2		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.31		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.038		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.26		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	1.3		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.95		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	5.2		0.037	0.024	ppb v/v	1		TO-15	Total/NA
Methyl methacrylate	0.18	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.25	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	7.6		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	200	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-04_20221003 (Continued) — Lab Sample ID: 200-65184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Butyl Ketone (2-Hexanone)	0.38	J	0.50	0.20	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.3		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	5.4		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.1		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Styrene	0.10	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.11	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.15	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.099	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.42		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.49		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.37		0.20	0.089	ppb v/v	1		TO-15	Total/NA
n-Butane - DL	4.6	J D	5.0	1.9	ppb v/v	10		TO-15	Total/NA
1,3-Butadiene - DL	1.2	J D	2.0	0.38	ppb v/v	10		TO-15	Total/NA
Acetone - DL	53	D	50	20	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	4.2	D	0.50	0.33	ppb v/v	10		TO-15	Total/NA
Chloroform - DL	0.90	J D	2.0	0.46	ppb v/v	10		TO-15	Total/NA
Benzene - DL	1.3	J D	2.0	0.74	ppb v/v	10		TO-15	Total/NA
n-Heptane - DL	0.72	J D	2.0	0.59	ppb v/v	10		TO-15	Total/NA
Trichloroethene - DL	4.3	D	0.37	0.24	ppb v/v	10		TO-15	Total/NA
Toluene - DL	6.3	D	2.0	0.93	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene - DL	280	D	2.0	0.27	ppb v/v	10		TO-15	Total/NA
Ethylbenzene - DL	1.4	J D	2.0	1.0	ppb v/v	10		TO-15	Total/NA
m,p-Xylene - DL	4.1	J D	5.0	1.7	ppb v/v	10		TO-15	Total/NA
o-Xylene - DL	1.3	J D	2.0	0.94	ppb v/v	10		TO-15	Total/NA
4-Isopropyltoluene - DL	0.38	J D	2.0	0.39	ppb v/v	10		TO-15	Total/NA

Client Sample ID: SV-01_20221004 — Lab Sample ID: 200-65197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.8	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	4.0		1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.80	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	12		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	3.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.29	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.48	J	1.5	0.42	ug/m3	1		TO-15	Total/NA
Acetone	85		12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	24		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.1		1.6	0.40	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.9		1.7	0.59	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	14	J	15	3.6	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	1.1		0.79	0.35	ug/m3	1		TO-15	Total/NA
n-Hexane	3.3		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	10		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	180	E	0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	8.6		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.1		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.32		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.2		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	2.0		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	2.9		0.82	0.24	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-01_20221004 (Continued)

Lab Sample ID: 200-65197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	30		0.20	0.13	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.2	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	11		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	730	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.4		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	5.3		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	2.0		0.87	0.41	ug/m3	1		TO-15	Total/NA
Styrene	0.41	J	0.85	0.14	ug/m3	1		TO-15	Total/NA
Cumene	0.28	J	0.98	0.18	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.26	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.33	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.33	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.7		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	3.0		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.9		1.2	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane - DL	4.6	J D	11	2.4	ug/m3	6.14		TO-15	Total/NA
n-Butane - DL	13	D	7.3	2.8	ug/m3	6.14		TO-15	Total/NA
1,3-Butadiene - DL	4.2	D	2.7	0.52	ug/m3	6.14		TO-15	Total/NA
Trichlorofluoromethane - DL	1.9	J D	6.9	1.8	ug/m3	6.14		TO-15	Total/NA
Acetone - DL	95	D	73	29	ug/m3	6.14		TO-15	Total/NA
Isopropyl alcohol - DL	28	J D	75	15	ug/m3	6.14		TO-15	Total/NA
Carbon disulfide - DL	4.5	J D	9.6	2.5	ug/m3	6.14		TO-15	Total/NA
Methylene Chloride - DL	4.9	J D	11	3.6	ug/m3	6.14		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	12	D	9.1	3.1	ug/m3	6.14		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	200	D	1.2	0.80	ug/m3	6.14		TO-15	Total/NA
Chloroform - DL	9.5	D	6.0	1.4	ug/m3	6.14		TO-15	Total/NA
Cyclohexane - DL	1.2	J D	4.2	0.74	ug/m3	6.14		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	1.3	J D	5.7	1.0	ug/m3	6.14		TO-15	Total/NA
Benzene - DL	2.2	J D	3.9	1.5	ug/m3	6.14		TO-15	Total/NA
n-Heptane - DL	3.2	J D	5.0	1.5	ug/m3	6.14		TO-15	Total/NA
Trichloroethene - DL	31	D	1.2	0.79	ug/m3	6.14		TO-15	Total/NA
Toluene - DL	11	D	4.6	2.2	ug/m3	6.14		TO-15	Total/NA
Tetrachloroethene - DL	780	D	8.3	1.1	ug/m3	6.14		TO-15	Total/NA
m,p-Xylene - DL	5.1	J D	13	4.5	ug/m3	6.14		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	1.4	J D	6.0	1.4	ug/m3	6.14		TO-15	Total/NA
4-Isopropyltoluene - DL	2.9	J D	6.7	1.3	ug/m3	6.14		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.37	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	1.1		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.39	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	5.1		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	1.6		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.063	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA
Acetone	36		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	10		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.3		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.1		0.50	0.17	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	4.6	J	5.0	1.2	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.27		0.20	0.088	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-01_20221004 (Continued)

Lab Sample ID: 200-65197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	0.93		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	3.6		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	45	E	0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	1.8		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.31		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.051		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.25		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	0.61		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.70		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	5.5		0.037	0.024	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.29	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	3.0		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	110	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.32		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.2		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.47		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Styrene	0.097	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Cumene	0.057	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.053	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.067	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.068	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.36		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.54		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.32		0.20	0.089	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane - DL	1.3	J D	3.1	0.68	ppb v/v	6.14		TO-15	Total/NA
n-Butane - DL	5.3	D	3.1	1.2	ppb v/v	6.14		TO-15	Total/NA
1,3-Butadiene - DL	1.9	D	1.2	0.23	ppb v/v	6.14		TO-15	Total/NA
Trichlorofluoromethane - DL	0.34	J D	1.2	0.32	ppb v/v	6.14		TO-15	Total/NA
Acetone - DL	40	D	31	12	ppb v/v	6.14		TO-15	Total/NA
Isopropyl alcohol - DL	11	J D	31	6.0	ppb v/v	6.14		TO-15	Total/NA
Carbon disulfide - DL	1.5	J D	3.1	0.80	ppb v/v	6.14		TO-15	Total/NA
Methylene Chloride - DL	1.4	J D	3.1	1.0	ppb v/v	6.14		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	4.0	D	3.1	1.0	ppb v/v	6.14		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	50	D	0.31	0.20	ppb v/v	6.14		TO-15	Total/NA
Chloroform - DL	1.9	D	1.2	0.28	ppb v/v	6.14		TO-15	Total/NA
Cyclohexane - DL	0.34	J D	1.2	0.21	ppb v/v	6.14		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	0.27	J D	1.2	0.21	ppb v/v	6.14		TO-15	Total/NA
Benzene - DL	0.69	J D	1.2	0.45	ppb v/v	6.14		TO-15	Total/NA
n-Heptane - DL	0.78	J D	1.2	0.36	ppb v/v	6.14		TO-15	Total/NA
Trichloroethene - DL	5.7	D	0.23	0.15	ppb v/v	6.14		TO-15	Total/NA
Toluene - DL	2.9	D	1.2	0.57	ppb v/v	6.14		TO-15	Total/NA
Tetrachloroethene - DL	120	D	1.2	0.17	ppb v/v	6.14		TO-15	Total/NA
m,p-Xylene - DL	1.2	J D	3.1	1.0	ppb v/v	6.14		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	0.29	J D	1.2	0.29	ppb v/v	6.14		TO-15	Total/NA
4-Isopropyltoluene - DL	0.53	J D	1.2	0.24	ppb v/v	6.14		TO-15	Total/NA

Client Sample ID: SV-03_20221004

Lab Sample ID: 200-65197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	8.3		1.8	0.39	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-03_20221004 (Continued)

Lab Sample ID: 200-65197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.41	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	9.9		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	2.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.29	ug/m3	1		TO-15	Total/NA
Acetone	82		12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	24		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	2.3		1.6	0.40	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	36		15	3.6	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.61	J	0.79	0.35	ug/m3	1		TO-15	Total/NA
n-Hexane	3.3		1.8	0.81	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	96		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	9.5		0.98	0.22	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.65	J	0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.26		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	3.3		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	2.2		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	2.5		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	45		0.20	0.13	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.3	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	6.1		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	130		1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.2		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	8.5		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	2.4		0.87	0.41	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.27	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.39	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.6		0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	1.9		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	1.5		1.2	0.54	ug/m3	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.46	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.20	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	4.2		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	1.2		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Acetone	34		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	9.6		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.75		0.50	0.13	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	12		5.0	1.2	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.15	J	0.20	0.088	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.93		0.50	0.23	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	24		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	2.0		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.19	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.042		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.71		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	0.69		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.61		0.20	0.059	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-03_20221004 (Continued) — Lab Sample ID: 200-65197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	8.4		0.037	0.024	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.31	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	19		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.51		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.9		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.56		0.20	0.094	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.054	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.32		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.35		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.25		0.20	0.089	ppb v/v	1		TO-15	Total/NA

Client Sample ID: SV-05_20221004 — Lab Sample ID: 200-65197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	2.2		1.8	0.39	ug/m3	1		TO-15	Total/NA
Chloromethane	0.27	J	1.0	0.25	ug/m3	1		TO-15	Total/NA
n-Butane	25		1.2	0.45	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	6.6		0.44	0.084	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	3.3		1.1	0.29	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.56	J	1.5	0.42	ug/m3	1		TO-15	Total/NA
Acetone	87		12	4.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	11	J	12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	5.4		1.6	0.40	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	28		15	3.6	ug/m3	1		TO-15	Total/NA
n-Hexane	7.0		1.8	0.81	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	11		1.5	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	45		0.20	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	27		0.98	0.22	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.33	J	1.1	0.21	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.0		0.69	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.28		0.22	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	3.5		0.93	0.16	ug/m3	1		TO-15	Total/NA
Benzene	3.9		0.64	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	5.8		0.82	0.24	ug/m3	1		TO-15	Total/NA
Trichloroethene	25		0.20	0.13	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.7	J	2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	5.8		0.75	0.35	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	380	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.9		0.87	0.43	ug/m3	1		TO-15	Total/NA
m,p-Xylene	9.0		2.2	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	2.6		0.87	0.41	ug/m3	1		TO-15	Total/NA
Cumene	0.39	J	0.98	0.18	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.28	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.38	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.5		0.98	0.23	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-05_20221004 (Continued)

Lab Sample ID: 200-65197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Isopropyltoluene	3.6		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	2.6		1.2	0.54	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	2.4	J D	4.9	1.1	ug/m3	2		TO-15	Total/NA
Chlorodifluoromethane - DL	2.3	J D	3.5	0.78	ug/m3	2		TO-15	Total/NA
n-Butane - DL	26	D	2.4	0.90	ug/m3	2		TO-15	Total/NA
1,3-Butadiene - DL	7.0	D	0.88	0.17	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane - DL	3.4	D	2.2	0.58	ug/m3	2		TO-15	Total/NA
Acetone - DL	87	D	24	9.5	ug/m3	2		TO-15	Total/NA
Isopropyl alcohol - DL	10	J D	25	4.8	ug/m3	2		TO-15	Total/NA
Carbon disulfide - DL	5.4	D	3.1	0.81	ug/m3	2		TO-15	Total/NA
tert-Butyl alcohol - DL	28	J D	30	7.3	ug/m3	2		TO-15	Total/NA
n-Hexane - DL	7.0	D	3.5	1.6	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	11	D	2.9	1.0	ug/m3	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	45	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Chloroform - DL	27	D	2.0	0.45	ug/m3	2		TO-15	Total/NA
Cyclohexane - DL	2.0	D	1.4	0.24	ug/m3	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	3.5	D	1.9	0.33	ug/m3	2		TO-15	Total/NA
Benzene - DL	4.0	D	1.3	0.47	ug/m3	2		TO-15	Total/NA
n-Heptane - DL	5.7	D	1.6	0.48	ug/m3	2		TO-15	Total/NA
Trichloroethene - DL	25	D	0.40	0.26	ug/m3	2		TO-15	Total/NA
Toluene - DL	5.8	D	1.5	0.70	ug/m3	2		TO-15	Total/NA
Tetrachloroethene - DL	390	D	2.7	0.37	ug/m3	2		TO-15	Total/NA
Ethylbenzene - DL	2.8	D	1.7	0.87	ug/m3	2		TO-15	Total/NA
m,p-Xylene - DL	8.6	D	4.3	1.5	ug/m3	2		TO-15	Total/NA
o-Xylene - DL	2.6	D	1.7	0.82	ug/m3	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	1.4	J D	2.0	0.46	ug/m3	2		TO-15	Total/NA
4-Isopropyltoluene - DL	3.5	D	2.2	0.43	ug/m3	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	2.6	D	2.4	1.1	ug/m3	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.47	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.62		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.13	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Butane	11		0.50	0.19	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	3.0		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.60		0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.074	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA
Acetone	36		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.3	J	5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.7		0.50	0.13	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	9.4		5.0	1.2	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.0		0.50	0.23	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	3.9		0.50	0.17	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	11		0.050	0.033	ppb v/v	1		TO-15	Total/NA
Chloroform	5.5		0.20	0.046	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.061	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.59		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.044		0.035	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.75		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Benzene	1.2		0.20	0.074	ppb v/v	1		TO-15	Total/NA
n-Heptane	1.4		0.20	0.059	ppb v/v	1		TO-15	Total/NA
Trichloroethene	4.7		0.037	0.024	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-05_20221004 (Continued)

Lab Sample ID: 200-65197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.41	J	0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	1.5		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	57	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.66		0.20	0.10	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	2.1		0.50	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.60		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Cumene	0.080	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.056	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.31		0.20	0.047	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.65		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.44		0.20	0.089	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	0.49	J D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
Chlorodifluoromethane - DL	0.65	J D	1.0	0.22	ppb v/v	2		TO-15	Total/NA
n-Butane - DL	11	D	1.0	0.38	ppb v/v	2		TO-15	Total/NA
1,3-Butadiene - DL	3.1	D	0.40	0.076	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane - DL	0.61	D	0.40	0.10	ppb v/v	2		TO-15	Total/NA
Acetone - DL	36	D	10	4.0	ppb v/v	2		TO-15	Total/NA
Isopropyl alcohol - DL	4.3	J D	10	2.0	ppb v/v	2		TO-15	Total/NA
Carbon disulfide - DL	1.7	D	1.0	0.26	ppb v/v	2		TO-15	Total/NA
tert-Butyl alcohol - DL	9.3	J D	10	2.4	ppb v/v	2		TO-15	Total/NA
n-Hexane - DL	2.0	D	1.0	0.46	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	3.8	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	11	D	0.10	0.066	ppb v/v	2		TO-15	Total/NA
Chloroform - DL	5.5	D	0.40	0.092	ppb v/v	2		TO-15	Total/NA
Cyclohexane - DL	0.59	D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
2,2,4-Trimethylpentane - DL	0.74	D	0.40	0.070	ppb v/v	2		TO-15	Total/NA
Benzene - DL	1.2	D	0.40	0.15	ppb v/v	2		TO-15	Total/NA
n-Heptane - DL	1.4	D	0.40	0.12	ppb v/v	2		TO-15	Total/NA
Trichloroethene - DL	4.7	D	0.074	0.048	ppb v/v	2		TO-15	Total/NA
Toluene - DL	1.5	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene - DL	58	D	0.40	0.054	ppb v/v	2		TO-15	Total/NA
Ethylbenzene - DL	0.65	D	0.40	0.20	ppb v/v	2		TO-15	Total/NA
m,p-Xylene - DL	2.0	D	1.0	0.34	ppb v/v	2		TO-15	Total/NA
o-Xylene - DL	0.59	D	0.40	0.19	ppb v/v	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	0.29	J D	0.40	0.094	ppb v/v	2		TO-15	Total/NA
4-Isopropyltoluene - DL	0.64	D	0.40	0.078	ppb v/v	2		TO-15	Total/NA
1,3-Dichlorobenzene - DL	0.44	D	0.40	0.18	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.80	J	2.5	0.54	ug/m3			10/06/22 11:50	1
Chlorodifluoromethane	8.0		1.8	0.39	ug/m3			10/06/22 11:50	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/06/22 11:50	1
Chloromethane	0.43	J	1.0	0.25	ug/m3			10/06/22 11:50	1
n-Butane	8.1		1.2	0.45	ug/m3			10/06/22 11:50	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/06/22 11:50	1
1,3-Butadiene	1.6		0.44	0.084	ug/m3			10/06/22 11:50	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/06/22 11:50	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/06/22 11:50	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/06/22 11:50	1
Trichlorofluoromethane	2.0		1.1	0.29	ug/m3			10/06/22 11:50	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/06/22 11:50	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/06/22 11:50	1
Acetone	160	E	12	4.8	ug/m3			10/06/22 11:50	1
Isopropyl alcohol	31		12	2.4	ug/m3			10/06/22 11:50	1
Carbon disulfide	1.6		1.6	0.40	ug/m3			10/06/22 11:50	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/06/22 11:50	1
Methylene Chloride	0.65	J	1.7	0.59	ug/m3			10/06/22 11:50	1
tert-Butyl alcohol	8.6	J	15	3.6	ug/m3			10/06/22 11:50	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/06/22 11:50	1
trans-1,2-Dichloroethene	1.0		0.79	0.35	ug/m3			10/06/22 11:50	1
n-Hexane	3.7		1.8	0.81	ug/m3			10/06/22 11:50	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/06/22 11:50	1
Methyl Ethyl Ketone (2-Butanone)	6.0		1.5	0.50	ug/m3			10/06/22 11:50	1
cis-1,2-Dichloroethene	110		0.20	0.13	ug/m3			10/06/22 11:50	1
Chloroform	10		0.98	0.22	ug/m3			10/06/22 11:50	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/06/22 11:50	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/06/22 11:50	1
Cyclohexane	1.0		0.69	0.12	ug/m3			10/06/22 11:50	1
Carbon tetrachloride	0.40		0.22	0.20	ug/m3			10/06/22 11:50	1
2,2,4-Trimethylpentane	1.5		0.93	0.16	ug/m3			10/06/22 11:50	1
Benzene	2.2		0.64	0.24	ug/m3			10/06/22 11:50	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/06/22 11:50	1
n-Heptane	2.4		0.82	0.24	ug/m3			10/06/22 11:50	1
Trichloroethene	34		0.20	0.13	ug/m3			10/06/22 11:50	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/06/22 11:50	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/06/22 11:50	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/06/22 11:50	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/06/22 11:50	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/06/22 11:50	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			10/06/22 11:50	1
Toluene	24		0.75	0.35	ug/m3			10/06/22 11:50	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/06/22 11:50	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/06/22 11:50	1
Tetrachloroethene	210		1.4	0.18	ug/m3			10/06/22 11:50	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/06/22 11:50	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/06/22 11:50	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/06/22 11:50	1

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/06/22 11:50	1
Ethylbenzene	4.2		0.87	0.43	ug/m3			10/06/22 11:50	1
m,p-Xylene	17		2.2	0.74	ug/m3			10/06/22 11:50	1
o-Xylene	3.8		0.87	0.41	ug/m3			10/06/22 11:50	1
Styrene	0.30	J	0.85	0.14	ug/m3			10/06/22 11:50	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/06/22 11:50	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/06/22 11:50	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/06/22 11:50	1
n-Propylbenzene	0.38	J	0.98	0.23	ug/m3			10/06/22 11:50	1
4-Ethyltoluene	0.54	J	0.98	0.25	ug/m3			10/06/22 11:50	1
1,3,5-Trimethylbenzene	0.45	J	0.98	0.22	ug/m3			10/06/22 11:50	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/06/22 11:50	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/06/22 11:50	1
1,2,4-Trimethylbenzene	1.8		0.98	0.23	ug/m3			10/06/22 11:50	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/06/22 11:50	1
4-Isopropyltoluene	2.3		1.1	0.21	ug/m3			10/06/22 11:50	1
1,3-Dichlorobenzene	1.6		1.2	0.54	ug/m3			10/06/22 11:50	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/06/22 11:50	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/06/22 11:50	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/06/22 11:50	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/06/22 11:50	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/06/22 11:50	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/06/22 11:50	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/06/22 11:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.16	J	0.50	0.11	ppb v/v			10/06/22 11:50	1
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v			10/06/22 11:50	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 11:50	1
Chloromethane	0.21	J	0.50	0.12	ppb v/v			10/06/22 11:50	1
n-Butane	3.4		0.50	0.19	ppb v/v			10/06/22 11:50	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/06/22 11:50	1
1,3-Butadiene	0.70		0.20	0.038	ppb v/v			10/06/22 11:50	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/06/22 11:50	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/06/22 11:50	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/06/22 11:50	1
Trichlorofluoromethane	0.36		0.20	0.052	ppb v/v			10/06/22 11:50	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 11:50	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/06/22 11:50	1
Acetone	69	E	5.0	2.0	ppb v/v			10/06/22 11:50	1
Isopropyl alcohol	13		5.0	0.98	ppb v/v			10/06/22 11:50	1
Carbon disulfide	0.50		0.50	0.13	ppb v/v			10/06/22 11:50	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/06/22 11:50	1
Methylene Chloride	0.19	J	0.50	0.17	ppb v/v			10/06/22 11:50	1
tert-Butyl alcohol	2.8	J	5.0	1.2	ppb v/v			10/06/22 11:50	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/06/22 11:50	1
trans-1,2-Dichloroethene	0.26		0.20	0.088	ppb v/v			10/06/22 11:50	1
n-Hexane	1.1		0.50	0.23	ppb v/v			10/06/22 11:50	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/06/22 11:50	1

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	2.0		0.50	0.17	ppb v/v			10/06/22 11:50	1
cis-1,2-Dichloroethene	27		0.050	0.033	ppb v/v			10/06/22 11:50	1
Chloroform	2.1		0.20	0.046	ppb v/v			10/06/22 11:50	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/06/22 11:50	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/06/22 11:50	1
Cyclohexane	0.29		0.20	0.035	ppb v/v			10/06/22 11:50	1
Carbon tetrachloride	0.064		0.035	0.032	ppb v/v			10/06/22 11:50	1
2,2,4-Trimethylpentane	0.33		0.20	0.035	ppb v/v			10/06/22 11:50	1
Benzene	0.70		0.20	0.074	ppb v/v			10/06/22 11:50	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/06/22 11:50	1
n-Heptane	0.59		0.20	0.059	ppb v/v			10/06/22 11:50	1
Trichloroethene	6.3		0.037	0.024	ppb v/v			10/06/22 11:50	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/06/22 11:50	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/06/22 11:50	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/06/22 11:50	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/06/22 11:50	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/06/22 11:50	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			10/06/22 11:50	1
Toluene	6.4		0.20	0.093	ppb v/v			10/06/22 11:50	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/06/22 11:50	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/06/22 11:50	1
Tetrachloroethene	32		0.20	0.027	ppb v/v			10/06/22 11:50	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/06/22 11:50	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/06/22 11:50	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/06/22 11:50	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/06/22 11:50	1
Ethylbenzene	0.96		0.20	0.10	ppb v/v			10/06/22 11:50	1
m,p-Xylene	3.9		0.50	0.17	ppb v/v			10/06/22 11:50	1
o-Xylene	0.87		0.20	0.094	ppb v/v			10/06/22 11:50	1
Styrene	0.070	J	0.20	0.032	ppb v/v			10/06/22 11:50	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/06/22 11:50	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/06/22 11:50	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/06/22 11:50	1
n-Propylbenzene	0.076	J	0.20	0.047	ppb v/v			10/06/22 11:50	1
4-Ethyltoluene	0.11	J	0.20	0.051	ppb v/v			10/06/22 11:50	1
1,3,5-Trimethylbenzene	0.092	J	0.20	0.044	ppb v/v			10/06/22 11:50	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/06/22 11:50	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/06/22 11:50	1
1,2,4-Trimethylbenzene	0.36		0.20	0.047	ppb v/v			10/06/22 11:50	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/06/22 11:50	1
4-Isopropyltoluene	0.42		0.20	0.039	ppb v/v			10/06/22 11:50	1
1,3-Dichlorobenzene	0.27		0.20	0.089	ppb v/v			10/06/22 11:50	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/06/22 11:50	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/06/22 11:50	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/06/22 11:50	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/06/22 11:50	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/06/22 11:50	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/06/22 11:50	1

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/06/22 11:50	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.0	J D	4.9	1.1	ug/m3			10/06/22 12:43	2
Chlorodifluoromethane	8.0	D	3.5	0.78	ug/m3			10/06/22 12:43	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.77	ug/m3			10/06/22 12:43	2
Chloromethane	2.1	U	2.1	0.50	ug/m3			10/06/22 12:43	2
n-Butane	13	D	2.4	0.90	ug/m3			10/06/22 12:43	2
Vinyl chloride	0.40	U	0.40	0.14	ug/m3			10/06/22 12:43	2
1,3-Butadiene	1.6	D	0.88	0.17	ug/m3			10/06/22 12:43	2
Bromomethane	1.6	U	1.6	0.40	ug/m3			10/06/22 12:43	2
Chloroethane	2.6	U	2.6	1.3	ug/m3			10/06/22 12:43	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.74	ug/m3			10/06/22 12:43	2
Trichlorofluoromethane	2.0	J D	2.2	0.58	ug/m3			10/06/22 12:43	2
1,1,2-Trichlorotrifluoroethane	3.1	U	3.1	0.84	ug/m3			10/06/22 12:43	2
1,1-Dichloroethene	0.40	U	0.40	0.23	ug/m3			10/06/22 12:43	2
Acetone	170	D	24	9.5	ug/m3			10/06/22 12:43	2
Isopropyl alcohol	31	D	25	4.8	ug/m3			10/06/22 12:43	2
Carbon disulfide	1.6	J D	3.1	0.81	ug/m3			10/06/22 12:43	2
3-Chloropropene	3.1	U	3.1	0.69	ug/m3			10/06/22 12:43	2
Methylene Chloride	3.5	U	3.5	1.2	ug/m3			10/06/22 12:43	2
tert-Butyl alcohol	10	J D	30	7.3	ug/m3			10/06/22 12:43	2
Methyl tert-butyl ether	1.4	U	1.4	0.58	ug/m3			10/06/22 12:43	2
trans-1,2-Dichloroethene	1.0	J D	1.6	0.70	ug/m3			10/06/22 12:43	2
n-Hexane	3.8	D	3.5	1.6	ug/m3			10/06/22 12:43	2
1,1-Dichloroethane	1.6	U	1.6	0.23	ug/m3			10/06/22 12:43	2
Methyl Ethyl Ketone (2-Butanone)	6.1	D	2.9	1.0	ug/m3			10/06/22 12:43	2
cis-1,2-Dichloroethene	110	D	0.40	0.26	ug/m3			10/06/22 12:43	2
Chloroform	10	D	2.0	0.45	ug/m3			10/06/22 12:43	2
Tetrahydrofuran	29	U	29	7.1	ug/m3			10/06/22 12:43	2
1,1,1-Trichloroethane	2.2	U	2.2	0.43	ug/m3			10/06/22 12:43	2
Cyclohexane	0.96	J D	1.4	0.24	ug/m3			10/06/22 12:43	2
Carbon tetrachloride	0.44	U	0.44	0.40	ug/m3			10/06/22 12:43	2
2,2,4-Trimethylpentane	1.4	J D	1.9	0.33	ug/m3			10/06/22 12:43	2
Benzene	2.2	D	1.3	0.47	ug/m3			10/06/22 12:43	2
1,2-Dichloroethane	1.6	U	1.6	1.2	ug/m3			10/06/22 12:43	2
n-Heptane	2.3	D	1.6	0.48	ug/m3			10/06/22 12:43	2
Trichloroethene	33	D	0.40	0.26	ug/m3			10/06/22 12:43	2
Methyl methacrylate	4.1	U	4.1	1.3	ug/m3			10/06/22 12:43	2
1,2-Dichloropropane	1.8	U	1.8	0.80	ug/m3			10/06/22 12:43	2
1,4-Dioxane	36	U	36	12	ug/m3			10/06/22 12:43	2
Bromodichloromethane	2.7	U	2.7	0.54	ug/m3			10/06/22 12:43	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.18	ug/m3			10/06/22 12:43	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	4.1	U	4.1	1.6	ug/m3			10/06/22 12:43	2
Toluene	24	D	1.5	0.70	ug/m3			10/06/22 12:43	2
trans-1,3-Dichloropropene	1.8	U	1.8	0.81	ug/m3			10/06/22 12:43	2
1,1,2-Trichloroethane	2.2	U	2.2	0.37	ug/m3			10/06/22 12:43	2

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	220	D	2.7	0.37	ug/m3			10/06/22 12:43	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	1.6	ug/m3			10/06/22 12:43	2
Dibromochloromethane	3.4	U	3.4	0.53	ug/m3			10/06/22 12:43	2
1,2-Dibromoethane	3.1	U	3.1	0.71	ug/m3			10/06/22 12:43	2
Chlorobenzene	1.8	U	1.8	0.40	ug/m3			10/06/22 12:43	2
Ethylbenzene	4.3	D	1.7	0.87	ug/m3			10/06/22 12:43	2
m,p-Xylene	16	D	4.3	1.5	ug/m3			10/06/22 12:43	2
o-Xylene	3.9	D	1.7	0.82	ug/m3			10/06/22 12:43	2
Styrene	1.7	U	1.7	0.27	ug/m3			10/06/22 12:43	2
Bromoform	4.1	U	4.1	1.2	ug/m3			10/06/22 12:43	2
Cumene	2.0	U	2.0	0.36	ug/m3			10/06/22 12:43	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	0.59	ug/m3			10/06/22 12:43	2
n-Propylbenzene	2.0	U	2.0	0.46	ug/m3			10/06/22 12:43	2
4-Ethyltoluene	2.0	U	2.0	0.50	ug/m3			10/06/22 12:43	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.43	ug/m3			10/06/22 12:43	2
2-Chlorotoluene	2.1	U	2.1	0.50	ug/m3			10/06/22 12:43	2
tert-Butylbenzene	2.2	U	2.2	0.41	ug/m3			10/06/22 12:43	2
1,2,4-Trimethylbenzene	1.8	J D	2.0	0.46	ug/m3			10/06/22 12:43	2
sec-Butylbenzene	2.2	U	2.2	0.43	ug/m3			10/06/22 12:43	2
4-Isopropyltoluene	2.4	D	2.2	0.43	ug/m3			10/06/22 12:43	2
1,3-Dichlorobenzene	1.6	J D	2.4	1.1	ug/m3			10/06/22 12:43	2
1,4-Dichlorobenzene	2.4	U	2.4	1.1	ug/m3			10/06/22 12:43	2
Benzyl chloride	2.1	U	2.1	0.77	ug/m3			10/06/22 12:43	2
n-Butylbenzene	2.2	U	2.2	0.60	ug/m3			10/06/22 12:43	2
1,2-Dichlorobenzene	2.4	U	2.4	0.84	ug/m3			10/06/22 12:43	2
1,2,4-Trichlorobenzene	7.4	U	7.4	2.8	ug/m3			10/06/22 12:43	2
Hexachlorobutadiene	4.3	U	4.3	0.66	ug/m3			10/06/22 12:43	2
Naphthalene	5.2	U	5.2	1.8	ug/m3			10/06/22 12:43	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.41	J D	1.0	0.22	ppb v/v			10/06/22 12:43	2
Chlorodifluoromethane	2.3	D	1.0	0.22	ppb v/v			10/06/22 12:43	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.11	ppb v/v			10/06/22 12:43	2
Chloromethane	1.0	U	1.0	0.24	ppb v/v			10/06/22 12:43	2
n-Butane	5.3	D	1.0	0.38	ppb v/v			10/06/22 12:43	2
Vinyl chloride	0.16	U	0.16	0.056	ppb v/v			10/06/22 12:43	2
1,3-Butadiene	0.72	D	0.40	0.076	ppb v/v			10/06/22 12:43	2
Bromomethane	0.40	U	0.40	0.10	ppb v/v			10/06/22 12:43	2
Chloroethane	1.0	U	1.0	0.50	ppb v/v			10/06/22 12:43	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.17	ppb v/v			10/06/22 12:43	2
Trichlorofluoromethane	0.35	J D	0.40	0.10	ppb v/v			10/06/22 12:43	2
1,1,2-Trichlorotrifluoroethane	0.40	U	0.40	0.11	ppb v/v			10/06/22 12:43	2
1,1-Dichloroethene	0.10	U	0.10	0.058	ppb v/v			10/06/22 12:43	2
Acetone	73	D	10	4.0	ppb v/v			10/06/22 12:43	2
Isopropyl alcohol	12	D	10	2.0	ppb v/v			10/06/22 12:43	2
Carbon disulfide	0.52	J D	1.0	0.26	ppb v/v			10/06/22 12:43	2
3-Chloropropene	1.0	U	1.0	0.22	ppb v/v			10/06/22 12:43	2
Methylene Chloride	1.0	U	1.0	0.34	ppb v/v			10/06/22 12:43	2
tert-Butyl alcohol	3.4	J D	10	2.4	ppb v/v			10/06/22 12:43	2

Client Sample ID: SV-02_20221003
Date Collected: 10/03/22 13:10
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.40	U	0.40	0.16	ppb v/v			10/06/22 12:43	2
trans-1,2-Dichloroethene	0.26	J D	0.40	0.18	ppb v/v			10/06/22 12:43	2
n-Hexane	1.1	D	1.0	0.46	ppb v/v			10/06/22 12:43	2
1,1-Dichloroethane	0.40	U	0.40	0.058	ppb v/v			10/06/22 12:43	2
Methyl Ethyl Ketone (2-Butanone)	2.1	D	1.0	0.34	ppb v/v			10/06/22 12:43	2
cis-1,2-Dichloroethene	27	D	0.10	0.066	ppb v/v			10/06/22 12:43	2
Chloroform	2.1	D	0.40	0.092	ppb v/v			10/06/22 12:43	2
Tetrahydrofuran	10	U	10	2.4	ppb v/v			10/06/22 12:43	2
1,1,1-Trichloroethane	0.40	U	0.40	0.078	ppb v/v			10/06/22 12:43	2
Cyclohexane	0.28	J D	0.40	0.070	ppb v/v			10/06/22 12:43	2
Carbon tetrachloride	0.070	U	0.070	0.064	ppb v/v			10/06/22 12:43	2
2,2,4-Trimethylpentane	0.31	J D	0.40	0.070	ppb v/v			10/06/22 12:43	2
Benzene	0.69	D	0.40	0.15	ppb v/v			10/06/22 12:43	2
1,2-Dichloroethane	0.40	U	0.40	0.30	ppb v/v			10/06/22 12:43	2
n-Heptane	0.56	D	0.40	0.12	ppb v/v			10/06/22 12:43	2
Trichloroethene	6.1	D	0.074	0.048	ppb v/v			10/06/22 12:43	2
Methyl methacrylate	1.0	U	1.0	0.32	ppb v/v			10/06/22 12:43	2
1,2-Dichloropropane	0.40	U	0.40	0.17	ppb v/v			10/06/22 12:43	2
1,4-Dioxane	10	U	10	3.4	ppb v/v			10/06/22 12:43	2
Bromodichloromethane	0.40	U	0.40	0.080	ppb v/v			10/06/22 12:43	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.040	ppb v/v			10/06/22 12:43	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	U	1.0	0.38	ppb v/v			10/06/22 12:43	2
Toluene	6.5	D	0.40	0.19	ppb v/v			10/06/22 12:43	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.18	ppb v/v			10/06/22 12:43	2
1,1,2-Trichloroethane	0.40	U	0.40	0.068	ppb v/v			10/06/22 12:43	2
Tetrachloroethene	33	D	0.40	0.054	ppb v/v			10/06/22 12:43	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.40	ppb v/v			10/06/22 12:43	2
Dibromochloromethane	0.40	U	0.40	0.062	ppb v/v			10/06/22 12:43	2
1,2-Dibromoethane	0.40	U	0.40	0.092	ppb v/v			10/06/22 12:43	2
Chlorobenzene	0.40	U	0.40	0.086	ppb v/v			10/06/22 12:43	2
Ethylbenzene	0.98	D	0.40	0.20	ppb v/v			10/06/22 12:43	2
m,p-Xylene	3.7	D	1.0	0.34	ppb v/v			10/06/22 12:43	2
o-Xylene	0.91	D	0.40	0.19	ppb v/v			10/06/22 12:43	2
Styrene	0.40	U	0.40	0.064	ppb v/v			10/06/22 12:43	2
Bromoform	0.40	U	0.40	0.12	ppb v/v			10/06/22 12:43	2
Cumene	0.40	U	0.40	0.074	ppb v/v			10/06/22 12:43	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.086	ppb v/v			10/06/22 12:43	2
n-Propylbenzene	0.40	U	0.40	0.094	ppb v/v			10/06/22 12:43	2
4-Ethyltoluene	0.40	U	0.40	0.10	ppb v/v			10/06/22 12:43	2
1,3,5-Trimethylbenzene	0.40	U	0.40	0.088	ppb v/v			10/06/22 12:43	2
2-Chlorotoluene	0.40	U	0.40	0.096	ppb v/v			10/06/22 12:43	2
tert-Butylbenzene	0.40	U	0.40	0.074	ppb v/v			10/06/22 12:43	2
1,2,4-Trimethylbenzene	0.36	J D	0.40	0.094	ppb v/v			10/06/22 12:43	2
sec-Butylbenzene	0.40	U	0.40	0.078	ppb v/v			10/06/22 12:43	2
4-Isopropyltoluene	0.45	D	0.40	0.078	ppb v/v			10/06/22 12:43	2
1,3-Dichlorobenzene	0.27	J D	0.40	0.18	ppb v/v			10/06/22 12:43	2
1,4-Dichlorobenzene	0.40	U	0.40	0.19	ppb v/v			10/06/22 12:43	2
Benzyl chloride	0.40	U	0.40	0.15	ppb v/v			10/06/22 12:43	2

Client Sample ID: SV-02_20221003

Lab Sample ID: 200-65184-1

Date Collected: 10/03/22 13:10
Matrix: Air
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	0.40	U	0.40	0.11	ppb v/v			10/06/22 12:43	2
1,2-Dichlorobenzene	0.40	U	0.40	0.14	ppb v/v			10/06/22 12:43	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.38	ppb v/v			10/06/22 12:43	2
Hexachlorobutadiene	0.40	U	0.40	0.062	ppb v/v			10/06/22 12:43	2
Naphthalene	1.0	U	1.0	0.34	ppb v/v			10/06/22 12:43	2

Client Sample ID: SV-04_20221003

Lab Sample ID: 200-65184-2

Date Collected: 10/03/22 15:30
Matrix: Air
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.8**	**J**	2.5	0.54	ug/m3			10/07/22 01:07	1
Chlorodifluoromethane	**0.87**	**J**	1.8	0.39	ug/m3			10/07/22 01:07	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 01:07	1
Chloromethane	**0.32**	**J**	1.0	0.25	ug/m3			10/07/22 01:07	1
n-Butane	**12**		1.2	0.45	ug/m3			10/07/22 01:07	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 01:07	1
1,3-Butadiene	**3.9**		0.44	0.084	ug/m3			10/07/22 01:07	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 01:07	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 01:07	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 01:07	1
Trichlorofluoromethane	**1.0**	**J**	1.1	0.29	ug/m3			10/07/22 01:07	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/07/22 01:07	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 01:07	1
Acetone	**160**	**E**	12	4.8	ug/m3			10/07/22 01:07	1
Isopropyl alcohol	**24**		12	2.4	ug/m3			10/07/22 01:07	1
Carbon disulfide	**3.0**		1.6	0.40	ug/m3			10/07/22 01:07	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 01:07	1
Methylene Chloride	**1.2**	**J**	1.7	0.59	ug/m3			10/07/22 01:07	1
tert-Butyl alcohol	**14**	**J**	15	3.6	ug/m3			10/07/22 01:07	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 01:07	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/07/22 01:07	1
n-Hexane	**7.1**		1.8	0.81	ug/m3			10/07/22 01:07	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 01:07	1
Methyl Ethyl Ketone (2-Butanone)	**8.2**		1.5	0.50	ug/m3			10/07/22 01:07	1
cis-1,2-Dichloroethene	**22**		0.20	0.13	ug/m3			10/07/22 01:07	1
Chloroform	**5.9**		0.98	0.22	ug/m3			10/07/22 01:07	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 01:07	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 01:07	1
Cyclohexane	**1.1**		0.69	0.12	ug/m3			10/07/22 01:07	1
Carbon tetrachloride	**0.24**		0.22	0.20	ug/m3			10/07/22 01:07	1
2,2,4-Trimethylpentane	**1.2**		0.93	0.16	ug/m3			10/07/22 01:07	1
Benzene	**4.1**		0.64	0.24	ug/m3			10/07/22 01:07	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 01:07	1
n-Heptane	**3.9**		0.82	0.24	ug/m3			10/07/22 01:07	1
Trichloroethene	**28**		0.20	0.13	ug/m3			10/07/22 01:07	1
Methyl methacrylate	**0.76**	**J**	2.0	0.66	ug/m3			10/07/22 01:07	1

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 01:07	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 01:07	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 01:07	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 01:07	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	**1.0**	**J**	2.0	0.78	ug/m3			10/07/22 01:07	1
Toluene	**29**		0.75	0.35	ug/m3			10/07/22 01:07	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 01:07	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 01:07	1
Tetrachloroethene	**1400**	**E**	1.4	0.18	ug/m3			10/07/22 01:07	1
Methyl Butyl Ketone (2-Hexanone)	**1.6**	**J**	2.0	0.82	ug/m3			10/07/22 01:07	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 01:07	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 01:07	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 01:07	1
Ethylbenzene	**5.8**		0.87	0.43	ug/m3			10/07/22 01:07	1
m,p-Xylene	**23**		2.2	0.74	ug/m3			10/07/22 01:07	1
o-Xylene	**4.9**		0.87	0.41	ug/m3			10/07/22 01:07	1
Styrene	**0.42**	**J**	0.85	0.14	ug/m3			10/07/22 01:07	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 01:07	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/07/22 01:07	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 01:07	1
n-Propylbenzene	**0.53**	**J**	0.98	0.23	ug/m3			10/07/22 01:07	1
4-Ethyltoluene	**0.73**	**J**	0.98	0.25	ug/m3			10/07/22 01:07	1
1,3,5-Trimethylbenzene	**0.49**	**J**	0.98	0.22	ug/m3			10/07/22 01:07	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 01:07	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 01:07	1
1,2,4-Trimethylbenzene	**2.1**		0.98	0.23	ug/m3			10/07/22 01:07	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 01:07	1
4-Isopropyltoluene	**2.7**		1.1	0.21	ug/m3			10/07/22 01:07	1
1,3-Dichlorobenzene	**2.2**		1.2	0.54	ug/m3			10/07/22 01:07	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 01:07	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/07/22 01:07	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 01:07	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 01:07	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 01:07	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 01:07	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 01:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.35**	**J**	0.50	0.11	ppb v/v			10/07/22 01:07	1
Chlorodifluoromethane	**0.24**	**J**	0.50	0.11	ppb v/v			10/07/22 01:07	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 01:07	1
Chloromethane	**0.16**	**J**	0.50	0.12	ppb v/v			10/07/22 01:07	1
n-Butane	**5.0**		0.50	0.19	ppb v/v			10/07/22 01:07	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 01:07	1
1,3-Butadiene	**1.8**		0.20	0.038	ppb v/v			10/07/22 01:07	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 01:07	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 01:07	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 01:07	1

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.18	J	0.20	0.052	ppb v/v			10/07/22 01:07	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 01:07	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 01:07	1
Acetone	69	E	5.0	2.0	ppb v/v			10/07/22 01:07	1
Isopropyl alcohol	9.9		5.0	0.98	ppb v/v			10/07/22 01:07	1
Carbon disulfide	0.96		0.50	0.13	ppb v/v			10/07/22 01:07	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 01:07	1
Methylene Chloride	0.35	J	0.50	0.17	ppb v/v			10/07/22 01:07	1
tert-Butyl alcohol	4.5	J	5.0	1.2	ppb v/v			10/07/22 01:07	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 01:07	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/07/22 01:07	1
n-Hexane	2.0		0.50	0.23	ppb v/v			10/07/22 01:07	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 01:07	1
Methyl Ethyl Ketone (2-Butanone)	2.8		0.50	0.17	ppb v/v			10/07/22 01:07	1
cis-1,2-Dichloroethene	5.5		0.050	0.033	ppb v/v			10/07/22 01:07	1
Chloroform	1.2		0.20	0.046	ppb v/v			10/07/22 01:07	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 01:07	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 01:07	1
Cyclohexane	0.31		0.20	0.035	ppb v/v			10/07/22 01:07	1
Carbon tetrachloride	0.038		0.035	0.032	ppb v/v			10/07/22 01:07	1
2,2,4-Trimethylpentane	0.26		0.20	0.035	ppb v/v			10/07/22 01:07	1
Benzene	1.3		0.20	0.074	ppb v/v			10/07/22 01:07	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 01:07	1
n-Heptane	0.95		0.20	0.059	ppb v/v			10/07/22 01:07	1
Trichloroethene	5.2		0.037	0.024	ppb v/v			10/07/22 01:07	1
Methyl methacrylate	0.18	J	0.50	0.16	ppb v/v			10/07/22 01:07	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 01:07	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 01:07	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 01:07	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 01:07	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.25	J	0.50	0.19	ppb v/v			10/07/22 01:07	1
Toluene	7.6		0.20	0.093	ppb v/v			10/07/22 01:07	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 01:07	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 01:07	1
Tetrachloroethene	200	E	0.20	0.027	ppb v/v			10/07/22 01:07	1
Methyl Butyl Ketone (2-Hexanone)	0.38	J	0.50	0.20	ppb v/v			10/07/22 01:07	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 01:07	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 01:07	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 01:07	1
Ethylbenzene	1.3		0.20	0.10	ppb v/v			10/07/22 01:07	1
m,p-Xylene	5.4		0.50	0.17	ppb v/v			10/07/22 01:07	1
o-Xylene	1.1		0.20	0.094	ppb v/v			10/07/22 01:07	1
Styrene	0.10	J	0.20	0.032	ppb v/v			10/07/22 01:07	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 01:07	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/07/22 01:07	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 01:07	1
n-Propylbenzene	0.11	J	0.20	0.047	ppb v/v			10/07/22 01:07	1
4-Ethyltoluene	0.15	J	0.20	0.051	ppb v/v			10/07/22 01:07	1

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.099	J	0.20	0.044	ppb v/v			10/07/22 01:07	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 01:07	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 01:07	1
1,2,4-Trimethylbenzene	0.42		0.20	0.047	ppb v/v			10/07/22 01:07	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 01:07	1
4-Isopropyltoluene	0.49		0.20	0.039	ppb v/v			10/07/22 01:07	1
1,3-Dichlorobenzene	0.37		0.20	0.089	ppb v/v			10/07/22 01:07	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 01:07	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/07/22 01:07	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 01:07	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 01:07	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 01:07	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 01:07	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 01:07	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			10/06/22 14:29	10
Chlorodifluoromethane	18	U	18	3.9	ug/m3			10/06/22 14:29	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.8	ug/m3			10/06/22 14:29	10
Chloromethane	10	U	10	2.5	ug/m3			10/06/22 14:29	10
n-Butane	11	J D	12	4.5	ug/m3			10/06/22 14:29	10
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			10/06/22 14:29	10
1,3-Butadiene	2.7	J D	4.4	0.84	ug/m3			10/06/22 14:29	10
Bromomethane	7.8	U	7.8	2.0	ug/m3			10/06/22 14:29	10
Chloroethane	13	U	13	6.6	ug/m3			10/06/22 14:29	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	3.7	ug/m3			10/06/22 14:29	10
Trichlorofluoromethane	11	U	11	2.9	ug/m3			10/06/22 14:29	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.2	ug/m3			10/06/22 14:29	10
1,1-Dichloroethene	2.0	U	2.0	1.1	ug/m3			10/06/22 14:29	10
Acetone	130	D	120	48	ug/m3			10/06/22 14:29	10
Isopropyl alcohol	120	U	120	24	ug/m3			10/06/22 14:29	10
Carbon disulfide	16	U	16	4.0	ug/m3			10/06/22 14:29	10
3-Chloropropene	16	U	16	3.4	ug/m3			10/06/22 14:29	10
Methylene Chloride	17	U	17	5.9	ug/m3			10/06/22 14:29	10
tert-Butyl alcohol	150	U	150	36	ug/m3			10/06/22 14:29	10
Methyl tert-butyl ether	7.2	U	7.2	2.9	ug/m3			10/06/22 14:29	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			10/06/22 14:29	10
n-Hexane	18	U	18	8.1	ug/m3			10/06/22 14:29	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			10/06/22 14:29	10
Methyl Ethyl Ketone (2-Butanone)	15	U	15	5.0	ug/m3			10/06/22 14:29	10
cis-1,2-Dichloroethene	16	D	2.0	1.3	ug/m3			10/06/22 14:29	10
Chloroform	4.4	J D	9.8	2.2	ug/m3			10/06/22 14:29	10
Tetrahydrofuran	150	U	150	35	ug/m3			10/06/22 14:29	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			10/06/22 14:29	10
Cyclohexane	6.9	U	6.9	1.2	ug/m3			10/06/22 14:29	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			10/06/22 14:29	10
2,2,4-Trimethylpentane	9.3	U	9.3	1.6	ug/m3			10/06/22 14:29	10
Benzene	4.1	J D	6.4	2.4	ug/m3			10/06/22 14:29	10

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	8.1	U	8.1	6.1	ug/m3			10/06/22 14:29	10
n-Heptane	3.0	J D	8.2	2.4	ug/m3			10/06/22 14:29	10
Trichloroethene	23	D	2.0	1.3	ug/m3			10/06/22 14:29	10
Methyl methacrylate	20	U	20	6.6	ug/m3			10/06/22 14:29	10
1,2-Dichloropropane	9.2	U	9.2	4.0	ug/m3			10/06/22 14:29	10
1,4-Dioxane	180	U	180	61	ug/m3			10/06/22 14:29	10
Bromodichloromethane	13	U	13	2.7	ug/m3			10/06/22 14:29	10
cis-1,3-Dichloropropene	9.1	U	9.1	0.91	ug/m3			10/06/22 14:29	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			10/06/22 14:29	10
Toluene	24	D	7.5	3.5	ug/m3			10/06/22 14:29	10
trans-1,3-Dichloropropene	9.1	U	9.1	4.0	ug/m3			10/06/22 14:29	10
1,1,2-Trichloroethane	11	U	11	1.9	ug/m3			10/06/22 14:29	10
Tetrachloroethene	1900	D	14	1.8	ug/m3			10/06/22 14:29	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	8.2	ug/m3			10/06/22 14:29	10
Dibromochloromethane	17	U	17	2.6	ug/m3			10/06/22 14:29	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			10/06/22 14:29	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			10/06/22 14:29	10
Ethylbenzene	6.1	J D	8.7	4.3	ug/m3			10/06/22 14:29	10
m,p-Xylene	18	J D	22	7.4	ug/m3			10/06/22 14:29	10
o-Xylene	5.4	J D	8.7	4.1	ug/m3			10/06/22 14:29	10
Styrene	8.5	U	8.5	1.4	ug/m3			10/06/22 14:29	10
Bromoform	21	U	21	6.0	ug/m3			10/06/22 14:29	10
Cumene	9.8	U	9.8	1.8	ug/m3			10/06/22 14:29	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			10/06/22 14:29	10
n-Propylbenzene	9.8	U	9.8	2.3	ug/m3			10/06/22 14:29	10
4-Ethyltoluene	9.8	U	9.8	2.5	ug/m3			10/06/22 14:29	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.2	ug/m3			10/06/22 14:29	10
2-Chlorotoluene	10	U	10	2.5	ug/m3			10/06/22 14:29	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/06/22 14:29	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			10/06/22 14:29	10
sec-Butylbenzene	11	U	11	2.1	ug/m3			10/06/22 14:29	10
4-Isopropyltoluene	2.1	J D	11	2.1	ug/m3			10/06/22 14:29	10
1,3-Dichlorobenzene	12	U	12	5.4	ug/m3			10/06/22 14:29	10
1,4-Dichlorobenzene	12	U	12	5.7	ug/m3			10/06/22 14:29	10
Benzyl chloride	10	U	10	3.8	ug/m3			10/06/22 14:29	10
n-Butylbenzene	11	U	11	3.0	ug/m3			10/06/22 14:29	10
1,2-Dichlorobenzene	12	U	12	4.2	ug/m3			10/06/22 14:29	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/06/22 14:29	10
Hexachlorobutadiene	21	U	21	3.3	ug/m3			10/06/22 14:29	10
Naphthalene	26	U	26	8.9	ug/m3			10/06/22 14:29	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			10/06/22 14:29	10
Chlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			10/06/22 14:29	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.55	ppb v/v			10/06/22 14:29	10
Chloromethane	5.0	U	5.0	1.2	ppb v/v			10/06/22 14:29	10
n-Butane	4.6	J D	5.0	1.9	ppb v/v			10/06/22 14:29	10
Vinyl chloride	0.78	U	0.78	0.28	ppb v/v			10/06/22 14:29	10

Client Sample ID: SV-04_20221003
Date Collected: 10/03/22 15:30
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65184-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	1.2	J D	2.0	0.38	ppb v/v			10/06/22 14:29	10
Bromomethane	2.0	U	2.0	0.52	ppb v/v			10/06/22 14:29	10
Chloroethane	5.0	U	5.0	2.5	ppb v/v			10/06/22 14:29	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.85	ppb v/v			10/06/22 14:29	10
Trichlorofluoromethane	2.0	U	2.0	0.52	ppb v/v			10/06/22 14:29	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.55	ppb v/v			10/06/22 14:29	10
1,1-Dichloroethene	0.50	U	0.50	0.29	ppb v/v			10/06/22 14:29	10
Acetone	53	D	50	20	ppb v/v			10/06/22 14:29	10
Isopropyl alcohol	50	U	50	9.8	ppb v/v			10/06/22 14:29	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			10/06/22 14:29	10
3-Chloropropene	5.0	U	5.0	1.1	ppb v/v			10/06/22 14:29	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			10/06/22 14:29	10
tert-Butyl alcohol	50	U	50	12	ppb v/v			10/06/22 14:29	10
Methyl tert-butyl ether	2.0	U	2.0	0.80	ppb v/v			10/06/22 14:29	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			10/06/22 14:29	10
n-Hexane	5.0	U	5.0	2.3	ppb v/v			10/06/22 14:29	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			10/06/22 14:29	10
Methyl Ethyl Ketone (2-Butanone)	5.0	U	5.0	1.7	ppb v/v			10/06/22 14:29	10
cis-1,2-Dichloroethene	4.2	D	0.50	0.33	ppb v/v			10/06/22 14:29	10
Chloroform	0.90	J D	2.0	0.46	ppb v/v			10/06/22 14:29	10
Tetrahydrofuran	50	U	50	12	ppb v/v			10/06/22 14:29	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			10/06/22 14:29	10
Cyclohexane	2.0	U	2.0	0.35	ppb v/v			10/06/22 14:29	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			10/06/22 14:29	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.35	ppb v/v			10/06/22 14:29	10
Benzene	1.3	J D	2.0	0.74	ppb v/v			10/06/22 14:29	10
1,2-Dichloroethane	2.0	U	2.0	1.5	ppb v/v			10/06/22 14:29	10
n-Heptane	0.72	J D	2.0	0.59	ppb v/v			10/06/22 14:29	10
Trichloroethene	4.3	D	0.37	0.24	ppb v/v			10/06/22 14:29	10
Methyl methacrylate	5.0	U	5.0	1.6	ppb v/v			10/06/22 14:29	10
1,2-Dichloropropane	2.0	U	2.0	0.87	ppb v/v			10/06/22 14:29	10
1,4-Dioxane	50	U	50	17	ppb v/v			10/06/22 14:29	10
Bromodichloromethane	2.0	U	2.0	0.40	ppb v/v			10/06/22 14:29	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.20	ppb v/v			10/06/22 14:29	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			10/06/22 14:29	10
Toluene	6.3	D	2.0	0.93	ppb v/v			10/06/22 14:29	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.89	ppb v/v			10/06/22 14:29	10
1,1,2-Trichloroethane	2.0	U	2.0	0.34	ppb v/v			10/06/22 14:29	10
Tetrachloroethene	280	D	2.0	0.27	ppb v/v			10/06/22 14:29	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	2.0	ppb v/v			10/06/22 14:29	10
Dibromochloromethane	2.0	U	2.0	0.31	ppb v/v			10/06/22 14:29	10
1,2-Dibromoethane	2.0	U	2.0	0.46	ppb v/v			10/06/22 14:29	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			10/06/22 14:29	10
Ethylbenzene	1.4	J D	2.0	1.0	ppb v/v			10/06/22 14:29	10
m,p-Xylene	4.1	J D	5.0	1.7	ppb v/v			10/06/22 14:29	10
o-Xylene	1.3	J D	2.0	0.94	ppb v/v			10/06/22 14:29	10
Styrene	2.0	U	2.0	0.32	ppb v/v			10/06/22 14:29	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			10/06/22 14:29	10

Client Sample ID: SV-04_20221003

Lab Sample ID: 200-65184-2

Date Collected: 10/03/22 15:30
Matrix: Air
Date Received: 10/04/22 13:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene	2.0	U	2.0	0.37	ppb v/v			10/06/22 14:29	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			10/06/22 14:29	10
n-Propylbenzene	2.0	U	2.0	0.47	ppb v/v			10/06/22 14:29	10
4-Ethyltoluene	2.0	U	2.0	0.51	ppb v/v			10/06/22 14:29	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.44	ppb v/v			10/06/22 14:29	10
2-Chlorotoluene	2.0	U	2.0	0.48	ppb v/v			10/06/22 14:29	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/06/22 14:29	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			10/06/22 14:29	10
sec-Butylbenzene	2.0	U	2.0	0.39	ppb v/v			10/06/22 14:29	10
4-Isopropyltoluene	**0.38**	**J D**	2.0	0.39	ppb v/v			10/06/22 14:29	10
1,3-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			10/06/22 14:29	10
1,4-Dichlorobenzene	2.0	U	2.0	0.95	ppb v/v			10/06/22 14:29	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			10/06/22 14:29	10
n-Butylbenzene	2.0	U	2.0	0.55	ppb v/v			10/06/22 14:29	10
1,2-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			10/06/22 14:29	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/06/22 14:29	10
Hexachlorobutadiene	2.0	U	2.0	0.31	ppb v/v			10/06/22 14:29	10
Naphthalene	5.0	U	5.0	1.7	ppb v/v			10/06/22 14:29	10

Client Sample ID: SV-01_20221004

Lab Sample ID: 200-65197-1

Date Collected: 10/04/22 15:30
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.8**	**J**	2.5	0.54	ug/m3			10/07/22 14:34	1
Chlorodifluoromethane	**4.0**		1.8	0.39	ug/m3			10/07/22 14:34	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 14:34	1
Chloromethane	**0.80**	**J**	1.0	0.25	ug/m3			10/07/22 14:34	1
n-Butane	**12**		1.2	0.45	ug/m3			10/07/22 14:34	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 14:34	1
1,3-Butadiene	**3.6**		0.44	0.084	ug/m3			10/07/22 14:34	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 14:34	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 14:34	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 14:34	1
Trichlorofluoromethane	**1.6**		1.1	0.29	ug/m3			10/07/22 14:34	1
1,1,2-Trichlorotrifluoroethane	**0.48**	**J**	1.5	0.42	ug/m3			10/07/22 14:34	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 14:34	1
Acetone	**85**		12	4.8	ug/m3			10/07/22 14:34	1
Isopropyl alcohol	**24**		12	2.4	ug/m3			10/07/22 14:34	1
Carbon disulfide	**4.1**		1.6	0.40	ug/m3			10/07/22 14:34	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 14:34	1
Methylene Chloride	**3.9**		1.7	0.59	ug/m3			10/07/22 14:34	1
tert-Butyl alcohol	**14**	**J**	15	3.6	ug/m3			10/07/22 14:34	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 14:34	1
trans-1,2-Dichloroethene	**1.1**		0.79	0.35	ug/m3			10/07/22 14:34	1
n-Hexane	**3.3**		1.8	0.81	ug/m3			10/07/22 14:34	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 14:34	1

Client Sample ID: SV-01_20221004
Date Collected: 10/04/22 15:30
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	10		1.5	0.50	ug/m3			10/07/22 14:34	1
cis-1,2-Dichloroethene	180	E	0.20	0.13	ug/m3			10/07/22 14:34	1
Chloroform	8.6		0.98	0.22	ug/m3			10/07/22 14:34	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 14:34	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 14:34	1
Cyclohexane	1.1		0.69	0.12	ug/m3			10/07/22 14:34	1
Carbon tetrachloride	0.32		0.22	0.20	ug/m3			10/07/22 14:34	1
2,2,4-Trimethylpentane	1.2		0.93	0.16	ug/m3			10/07/22 14:34	1
Benzene	2.0		0.64	0.24	ug/m3			10/07/22 14:34	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 14:34	1
n-Heptane	2.9		0.82	0.24	ug/m3			10/07/22 14:34	1
Trichloroethene	30		0.20	0.13	ug/m3			10/07/22 14:34	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 14:34	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 14:34	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 14:34	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 14:34	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 14:34	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.2	J	2.0	0.78	ug/m3			10/07/22 14:34	1
Toluene	11		0.75	0.35	ug/m3			10/07/22 14:34	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 14:34	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 14:34	1
Tetrachloroethene	730	E	1.4	0.18	ug/m3			10/07/22 14:34	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 14:34	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 14:34	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 14:34	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 14:34	1
Ethylbenzene	1.4		0.87	0.43	ug/m3			10/07/22 14:34	1
m,p-Xylene	5.3		2.2	0.74	ug/m3			10/07/22 14:34	1
o-Xylene	2.0		0.87	0.41	ug/m3			10/07/22 14:34	1
Styrene	0.41	J	0.85	0.14	ug/m3			10/07/22 14:34	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 14:34	1
Cumene	0.28	J	0.98	0.18	ug/m3			10/07/22 14:34	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 14:34	1
n-Propylbenzene	0.26	J	0.98	0.23	ug/m3			10/07/22 14:34	1
4-Ethyltoluene	0.33	J	0.98	0.25	ug/m3			10/07/22 14:34	1
1,3,5-Trimethylbenzene	0.33	J	0.98	0.22	ug/m3			10/07/22 14:34	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 14:34	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 14:34	1
1,2,4-Trimethylbenzene	1.7		0.98	0.23	ug/m3			10/07/22 14:34	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 14:34	1
4-Isopropyltoluene	3.0		1.1	0.21	ug/m3			10/07/22 14:34	1
1,3-Dichlorobenzene	1.9		1.2	0.54	ug/m3			10/07/22 14:34	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 14:34	1
Benzyl chloride	1.0	U *+	1.0	0.38	ug/m3			10/07/22 14:34	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 14:34	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 14:34	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 14:34	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 14:34	1

Client Sample ID: SV-01_20221004
Date Collected: 10/04/22 15:30
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 14:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.37	J	0.50	0.11	ppb v/v			10/07/22 14:34	1
Chlorodifluoromethane	1.1		0.50	0.11	ppb v/v			10/07/22 14:34	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 14:34	1
Chloromethane	0.39	J	0.50	0.12	ppb v/v			10/07/22 14:34	1
n-Butane	5.1		0.50	0.19	ppb v/v			10/07/22 14:34	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 14:34	1
1,3-Butadiene	1.6		0.20	0.038	ppb v/v			10/07/22 14:34	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 14:34	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 14:34	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 14:34	1
Trichlorofluoromethane	0.28		0.20	0.052	ppb v/v			10/07/22 14:34	1
1,1,2-Trichlorotrifluoroethane	0.063	J	0.20	0.055	ppb v/v			10/07/22 14:34	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 14:34	1
Acetone	36		5.0	2.0	ppb v/v			10/07/22 14:34	1
Isopropyl alcohol	10		5.0	0.98	ppb v/v			10/07/22 14:34	1
Carbon disulfide	1.3		0.50	0.13	ppb v/v			10/07/22 14:34	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 14:34	1
Methylene Chloride	1.1		0.50	0.17	ppb v/v			10/07/22 14:34	1
tert-Butyl alcohol	4.6	J	5.0	1.2	ppb v/v			10/07/22 14:34	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 14:34	1
trans-1,2-Dichloroethene	0.27		0.20	0.088	ppb v/v			10/07/22 14:34	1
n-Hexane	0.93		0.50	0.23	ppb v/v			10/07/22 14:34	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 14:34	1
Methyl Ethyl Ketone (2-Butanone)	3.6		0.50	0.17	ppb v/v			10/07/22 14:34	1
cis-1,2-Dichloroethene	45	E	0.050	0.033	ppb v/v			10/07/22 14:34	1
Chloroform	1.8		0.20	0.046	ppb v/v			10/07/22 14:34	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 14:34	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 14:34	1
Cyclohexane	0.31		0.20	0.035	ppb v/v			10/07/22 14:34	1
Carbon tetrachloride	0.051		0.035	0.032	ppb v/v			10/07/22 14:34	1
2,2,4-Trimethylpentane	0.25		0.20	0.035	ppb v/v			10/07/22 14:34	1
Benzene	0.61		0.20	0.074	ppb v/v			10/07/22 14:34	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 14:34	1
n-Heptane	0.70		0.20	0.059	ppb v/v			10/07/22 14:34	1
Trichloroethene	5.5		0.037	0.024	ppb v/v			10/07/22 14:34	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 14:34	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 14:34	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 14:34	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 14:34	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 14:34	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.29	J	0.50	0.19	ppb v/v			10/07/22 14:34	1
Toluene	3.0		0.20	0.093	ppb v/v			10/07/22 14:34	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 14:34	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 14:34	1
Tetrachloroethene	110	E	0.20	0.027	ppb v/v			10/07/22 14:34	1

Client Sample ID: SV-01_20221004
Date Collected: 10/04/22 15:30
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Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 14:34	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 14:34	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 14:34	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 14:34	1
Ethylbenzene	**0.32**		0.20	0.10	ppb v/v			10/07/22 14:34	1
m,p-Xylene	**1.2**		0.50	0.17	ppb v/v			10/07/22 14:34	1
o-Xylene	**0.47**		0.20	0.094	ppb v/v			10/07/22 14:34	1
Styrene	**0.097**	**J**	0.20	0.032	ppb v/v			10/07/22 14:34	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 14:34	1
Cumene	**0.057**	**J**	0.20	0.037	ppb v/v			10/07/22 14:34	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 14:34	1
n-Propylbenzene	**0.053**	**J**	0.20	0.047	ppb v/v			10/07/22 14:34	1
4-Ethyltoluene	**0.067**	**J**	0.20	0.051	ppb v/v			10/07/22 14:34	1
1,3,5-Trimethylbenzene	**0.068**	**J**	0.20	0.044	ppb v/v			10/07/22 14:34	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 14:34	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 14:34	1
1,2,4-Trimethylbenzene	**0.36**		0.20	0.047	ppb v/v			10/07/22 14:34	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 14:34	1
4-Isopropyltoluene	**0.54**		0.20	0.039	ppb v/v			10/07/22 14:34	1
1,3-Dichlorobenzene	**0.32**		0.20	0.089	ppb v/v			10/07/22 14:34	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 14:34	1
Benzyl chloride	0.20	U *+	0.20	0.074	ppb v/v			10/07/22 14:34	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 14:34	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 14:34	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 14:34	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 14:34	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 14:34	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	15	U	15	3.3	ug/m3			10/07/22 15:26	6.14
Chlorodifluoromethane	**4.6**	**J D**	11	2.4	ug/m3			10/07/22 15:26	6.14
1,2-Dichlorotetrafluoroethane	8.6	U	8.6	2.4	ug/m3			10/07/22 15:26	6.14
Chloromethane	6.3	U	6.3	1.5	ug/m3			10/07/22 15:26	6.14
n-Butane	**13**	**D**	7.3	2.8	ug/m3			10/07/22 15:26	6.14
Vinyl chloride	1.2	U	1.2	0.44	ug/m3			10/07/22 15:26	6.14
1,3-Butadiene	**4.2**	**D**	2.7	0.52	ug/m3			10/07/22 15:26	6.14
Bromomethane	4.8	U	4.8	1.2	ug/m3			10/07/22 15:26	6.14
Chloroethane	8.1	U	8.1	4.1	ug/m3			10/07/22 15:26	6.14
Bromoethene(Vinyl Bromide)	5.4	U	5.4	2.3	ug/m3			10/07/22 15:26	6.14
Trichlorofluoromethane	**1.9**	**J D**	6.9	1.8	ug/m3			10/07/22 15:26	6.14
1,1,2-Trichlorotrifluoroethane	9.4	U	9.4	2.6	ug/m3			10/07/22 15:26	6.14
1,1-Dichloroethene	1.2	U	1.2	0.71	ug/m3			10/07/22 15:26	6.14
Acetone	**95**	**D**	73	29	ug/m3			10/07/22 15:26	6.14
Isopropyl alcohol	**28**	**J D**	75	15	ug/m3			10/07/22 15:26	6.14
Carbon disulfide	**4.5**	**J D**	9.6	2.5	ug/m3			10/07/22 15:26	6.14
3-Chloropropene	9.6	U	9.6	2.1	ug/m3			10/07/22 15:26	6.14
Methylene Chloride	**4.9**	**J D**	11	3.6	ug/m3			10/07/22 15:26	6.14
tert-Butyl alcohol	93	U	93	22	ug/m3			10/07/22 15:26	6.14

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Date Collected: 10/04/22 15:30
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	4.4	U	4.4	1.8	ug/m3			10/07/22 15:26	6.14
trans-1,2-Dichloroethene	4.9	U	4.9	2.1	ug/m3			10/07/22 15:26	6.14
n-Hexane	11	U	11	5.0	ug/m3			10/07/22 15:26	6.14
1,1-Dichloroethane	5.0	U	5.0	0.72	ug/m3			10/07/22 15:26	6.14
Methyl Ethyl Ketone (2-Butanone)	12	D	9.1	3.1	ug/m3			10/07/22 15:26	6.14
cis-1,2-Dichloroethene	200	D	1.2	0.80	ug/m3			10/07/22 15:26	6.14
Chloroform	9.5	D	6.0	1.4	ug/m3			10/07/22 15:26	6.14
Tetrahydrofuran	91	U	91	22	ug/m3			10/07/22 15:26	6.14
1,1,1-Trichloroethane	6.7	U	6.7	1.3	ug/m3			10/07/22 15:26	6.14
Cyclohexane	1.2	J D	4.2	0.74	ug/m3			10/07/22 15:26	6.14
Carbon tetrachloride	1.4	U	1.4	1.2	ug/m3			10/07/22 15:26	6.14
2,2,4-Trimethylpentane	1.3	J D	5.7	1.0	ug/m3			10/07/22 15:26	6.14
Benzene	2.2	J D	3.9	1.5	ug/m3			10/07/22 15:26	6.14
1,2-Dichloroethane	5.0	U	5.0	3.7	ug/m3			10/07/22 15:26	6.14
n-Heptane	3.2	J D	5.0	1.5	ug/m3			10/07/22 15:26	6.14
Trichloroethene	31	D	1.2	0.79	ug/m3			10/07/22 15:26	6.14
Methyl methacrylate	13	U	13	4.0	ug/m3			10/07/22 15:26	6.14
1,2-Dichloropropane	5.7	U	5.7	2.5	ug/m3			10/07/22 15:26	6.14
1,4-Dioxane	110	U	110	38	ug/m3			10/07/22 15:26	6.14
Bromodichloromethane	8.2	U	8.2	1.6	ug/m3			10/07/22 15:26	6.14
cis-1,3-Dichloropropene	5.6	U	5.6	0.56	ug/m3			10/07/22 15:26	6.14
4-Methyl-2-pentanone (Methyl isobutyl ketone)	13	U	13	4.8	ug/m3			10/07/22 15:26	6.14
Toluene	11	D	4.6	2.2	ug/m3			10/07/22 15:26	6.14
trans-1,3-Dichloropropene	5.6	U	5.6	2.5	ug/m3			10/07/22 15:26	6.14
1,1,2-Trichloroethane	6.7	U	6.7	1.1	ug/m3			10/07/22 15:26	6.14
Tetrachloroethene	780	D	8.3	1.1	ug/m3			10/07/22 15:26	6.14
Methyl Butyl Ketone (2-Hexanone)	13	U	13	5.0	ug/m3			10/07/22 15:26	6.14
Dibromochloromethane	10	U	10	1.6	ug/m3			10/07/22 15:26	6.14
1,2-Dibromoethane	9.4	U	9.4	2.2	ug/m3			10/07/22 15:26	6.14
Chlorobenzene	5.7	U	5.7	1.2	ug/m3			10/07/22 15:26	6.14
Ethylbenzene	5.3	U	5.3	2.7	ug/m3			10/07/22 15:26	6.14
m,p-Xylene	5.1	J D	13	4.5	ug/m3			10/07/22 15:26	6.14
o-Xylene	5.3	U	5.3	2.5	ug/m3			10/07/22 15:26	6.14
Styrene	5.2	U	5.2	0.84	ug/m3			10/07/22 15:26	6.14
Bromoform	13	U	13	3.7	ug/m3			10/07/22 15:26	6.14
Cumene	6.0	U	6.0	1.1	ug/m3			10/07/22 15:26	6.14
1,1,2,2-Tetrachloroethane	8.4	U	8.4	1.8	ug/m3			10/07/22 15:26	6.14
n-Propylbenzene	6.0	U	6.0	1.4	ug/m3			10/07/22 15:26	6.14
4-Ethyltoluene	6.0	U	6.0	1.5	ug/m3			10/07/22 15:26	6.14
1,3,5-Trimethylbenzene	6.0	U	6.0	1.3	ug/m3			10/07/22 15:26	6.14
2-Chlorotoluene	6.4	U	6.4	1.5	ug/m3			10/07/22 15:26	6.14
tert-Butylbenzene	6.7	U	6.7	1.2	ug/m3			10/07/22 15:26	6.14
1,2,4-Trimethylbenzene	1.4	J D	6.0	1.4	ug/m3			10/07/22 15:26	6.14
sec-Butylbenzene	6.7	U	6.7	1.3	ug/m3			10/07/22 15:26	6.14
4-Isopropyltoluene	2.9	J D	6.7	1.3	ug/m3			10/07/22 15:26	6.14
1,3-Dichlorobenzene	7.4	U	7.4	3.3	ug/m3			10/07/22 15:26	6.14
1,4-Dichlorobenzene	7.4	U	7.4	3.5	ug/m3			10/07/22 15:26	6.14
Benzyl chloride	6.4	U *+	6.4	2.4	ug/m3			10/07/22 15:26	6.14

Client Sample ID: SV-01_20221004
Date Collected: 10/04/22 15:30
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	6.7	U	6.7	1.9	ug/m3			10/07/22 15:26	6.14
1,2-Dichlorobenzene	7.4	U	7.4	2.6	ug/m3			10/07/22 15:26	6.14
1,2,4-Trichlorobenzene	23	U	23	8.7	ug/m3			10/07/22 15:26	6.14
Hexachlorobutadiene	13	U	13	2.0	ug/m3			10/07/22 15:26	6.14
Naphthalene	16	U	16	5.5	ug/m3			10/07/22 15:26	6.14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.1	U	3.1	0.68	ppb v/v			10/07/22 15:26	6.14
Chlorodifluoromethane	**1.3**	**J D**	3.1	0.68	ppb v/v			10/07/22 15:26	6.14
1,2-Dichlorotetrafluoroethane	1.2	U	1.2	0.34	ppb v/v			10/07/22 15:26	6.14
Chloromethane	3.1	U	3.1	0.74	ppb v/v			10/07/22 15:26	6.14
n-Butane	**5.3**	**D**	3.1	1.2	ppb v/v			10/07/22 15:26	6.14
Vinyl chloride	0.48	U	0.48	0.17	ppb v/v			10/07/22 15:26	6.14
1,3-Butadiene	**1.9**	**D**	1.2	0.23	ppb v/v			10/07/22 15:26	6.14
Bromomethane	1.2	U	1.2	0.32	ppb v/v			10/07/22 15:26	6.14
Chloroethane	3.1	U	3.1	1.5	ppb v/v			10/07/22 15:26	6.14
Bromoethene(Vinyl Bromide)	1.2	U	1.2	0.52	ppb v/v			10/07/22 15:26	6.14
Trichlorofluoromethane	**0.34**	**J D**	1.2	0.32	ppb v/v			10/07/22 15:26	6.14
1,1,2-Trichlorotrifluoroethane	1.2	U	1.2	0.34	ppb v/v			10/07/22 15:26	6.14
1,1-Dichloroethene	0.31	U	0.31	0.18	ppb v/v			10/07/22 15:26	6.14
Acetone	**40**	**D**	31	12	ppb v/v			10/07/22 15:26	6.14
Isopropyl alcohol	**11**	**J D**	31	6.0	ppb v/v			10/07/22 15:26	6.14
Carbon disulfide	**1.5**	**J D**	3.1	0.80	ppb v/v			10/07/22 15:26	6.14
3-Chloropropene	3.1	U	3.1	0.68	ppb v/v			10/07/22 15:26	6.14
Methylene Chloride	**1.4**	**J D**	3.1	1.0	ppb v/v			10/07/22 15:26	6.14
tert-Butyl alcohol	31	U	31	7.4	ppb v/v			10/07/22 15:26	6.14
Methyl tert-butyl ether	1.2	U	1.2	0.49	ppb v/v			10/07/22 15:26	6.14
trans-1,2-Dichloroethene	1.2	U	1.2	0.54	ppb v/v			10/07/22 15:26	6.14
n-Hexane	3.1	U	3.1	1.4	ppb v/v			10/07/22 15:26	6.14
1,1-Dichloroethane	1.2	U	1.2	0.18	ppb v/v			10/07/22 15:26	6.14
Methyl Ethyl Ketone (2-Butanone)	**4.0**	**D**	3.1	1.0	ppb v/v			10/07/22 15:26	6.14
cis-1,2-Dichloroethene	**50**	**D**	0.31	0.20	ppb v/v			10/07/22 15:26	6.14
Chloroform	**1.9**	**D**	1.2	0.28	ppb v/v			10/07/22 15:26	6.14
Tetrahydrofuran	31	U	31	7.4	ppb v/v			10/07/22 15:26	6.14
1,1,1-Trichloroethane	1.2	U	1.2	0.24	ppb v/v			10/07/22 15:26	6.14
Cyclohexane	**0.34**	**J D**	1.2	0.21	ppb v/v			10/07/22 15:26	6.14
Carbon tetrachloride	0.21	U	0.21	0.20	ppb v/v			10/07/22 15:26	6.14
2,2,4-Trimethylpentane	**0.27**	**J D**	1.2	0.21	ppb v/v			10/07/22 15:26	6.14
Benzene	**0.69**	**J D**	1.2	0.45	ppb v/v			10/07/22 15:26	6.14
1,2-Dichloroethane	1.2	U	1.2	0.92	ppb v/v			10/07/22 15:26	6.14
n-Heptane	**0.78**	**J D**	1.2	0.36	ppb v/v			10/07/22 15:26	6.14
Trichloroethene	**5.7**	**D**	0.23	0.15	ppb v/v			10/07/22 15:26	6.14
Methyl methacrylate	3.1	U	3.1	0.98	ppb v/v			10/07/22 15:26	6.14
1,2-Dichloropropane	1.2	U	1.2	0.53	ppb v/v			10/07/22 15:26	6.14
1,4-Dioxane	31	U	31	10	ppb v/v			10/07/22 15:26	6.14
Bromodichloromethane	1.2	U	1.2	0.25	ppb v/v			10/07/22 15:26	6.14
cis-1,3-Dichloropropene	1.2	U	1.2	0.12	ppb v/v			10/07/22 15:26	6.14
4-Methyl-2-pentanone (Methyl isobutyl ketone)	3.1	U	3.1	1.2	ppb v/v			10/07/22 15:26	6.14

Client Sample ID: SV-01_20221004

Lab Sample ID: 200-65197-1

Date Collected: 10/04/22 15:30
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	2.9	D	1.2	0.57	ppb v/v			10/07/22 15:26	6.14
trans-1,3-Dichloropropene	1.2	U	1.2	0.55	ppb v/v			10/07/22 15:26	6.14
1,1,2-Trichloroethane	1.2	U	1.2	0.21	ppb v/v			10/07/22 15:26	6.14
Tetrachloroethene	120	D	1.2	0.17	ppb v/v			10/07/22 15:26	6.14
Methyl Butyl Ketone (2-Hexanone)	3.1	U	3.1	1.2	ppb v/v			10/07/22 15:26	6.14
Dibromochloromethane	1.2	U	1.2	0.19	ppb v/v			10/07/22 15:26	6.14
1,2-Dibromoethane	1.2	U	1.2	0.28	ppb v/v			10/07/22 15:26	6.14
Chlorobenzene	1.2	U	1.2	0.26	ppb v/v			10/07/22 15:26	6.14
Ethylbenzene	1.2	U	1.2	0.61	ppb v/v			10/07/22 15:26	6.14
m,p-Xylene	1.2	J D	3.1	1.0	ppb v/v			10/07/22 15:26	6.14
o-Xylene	1.2	U	1.2	0.58	ppb v/v			10/07/22 15:26	6.14
Styrene	1.2	U	1.2	0.20	ppb v/v			10/07/22 15:26	6.14
Bromoform	1.2	U	1.2	0.36	ppb v/v			10/07/22 15:26	6.14
Cumene	1.2	U	1.2	0.23	ppb v/v			10/07/22 15:26	6.14
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.26	ppb v/v			10/07/22 15:26	6.14
n-Propylbenzene	1.2	U	1.2	0.29	ppb v/v			10/07/22 15:26	6.14
4-Ethyltoluene	1.2	U	1.2	0.31	ppb v/v			10/07/22 15:26	6.14
1,3,5-Trimethylbenzene	1.2	U	1.2	0.27	ppb v/v			10/07/22 15:26	6.14
2-Chlorotoluene	1.2	U	1.2	0.29	ppb v/v			10/07/22 15:26	6.14
tert-Butylbenzene	1.2	U	1.2	0.23	ppb v/v			10/07/22 15:26	6.14
1,2,4-Trimethylbenzene	0.29	J D	1.2	0.29	ppb v/v			10/07/22 15:26	6.14
sec-Butylbenzene	1.2	U	1.2	0.24	ppb v/v			10/07/22 15:26	6.14
4-Isopropyltoluene	0.53	J D	1.2	0.24	ppb v/v			10/07/22 15:26	6.14
1,3-Dichlorobenzene	1.2	U	1.2	0.55	ppb v/v			10/07/22 15:26	6.14
1,4-Dichlorobenzene	1.2	U	1.2	0.58	ppb v/v			10/07/22 15:26	6.14
Benzyl chloride	1.2	U *+	1.2	0.45	ppb v/v			10/07/22 15:26	6.14
n-Butylbenzene	1.2	U	1.2	0.34	ppb v/v			10/07/22 15:26	6.14
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ppb v/v			10/07/22 15:26	6.14
1,2,4-Trichlorobenzene	3.1	U	3.1	1.2	ppb v/v			10/07/22 15:26	6.14
Hexachlorobutadiene	1.2	U	1.2	0.19	ppb v/v			10/07/22 15:26	6.14
Naphthalene	3.1	U	3.1	1.0	ppb v/v			10/07/22 15:26	6.14

Client Sample ID: SV-03_20221004

Lab Sample ID: 200-65197-2

Date Collected: 10/04/22 11:00
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3			10/07/22 16:19	1
Chlorodifluoromethane	8.3		1.8	0.39	ug/m3			10/07/22 16:19	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 16:19	1
Chloromethane	0.41	J	1.0	0.25	ug/m3			10/07/22 16:19	1
n-Butane	9.9		1.2	0.45	ug/m3			10/07/22 16:19	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 16:19	1
1,3-Butadiene	2.6		0.44	0.084	ug/m3			10/07/22 16:19	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 16:19	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 16:19	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 16:19	1

Client Sample ID: SV-03_20221004
Date Collected: 10/04/22 11:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.4		1.1	0.29	ug/m3			10/07/22 16:19	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/07/22 16:19	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 16:19	1
Acetone	82		12	4.8	ug/m3			10/07/22 16:19	1
Isopropyl alcohol	24		12	2.4	ug/m3			10/07/22 16:19	1
Carbon disulfide	2.3		1.6	0.40	ug/m3			10/07/22 16:19	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 16:19	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/07/22 16:19	1
tert-Butyl alcohol	36		15	3.6	ug/m3			10/07/22 16:19	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 16:19	1
trans-1,2-Dichloroethene	0.61	J	0.79	0.35	ug/m3			10/07/22 16:19	1
n-Hexane	3.3		1.8	0.81	ug/m3			10/07/22 16:19	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 16:19	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.50	ug/m3			10/07/22 16:19	1
cis-1,2-Dichloroethene	96		0.20	0.13	ug/m3			10/07/22 16:19	1
Chloroform	9.5		0.98	0.22	ug/m3			10/07/22 16:19	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 16:19	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 16:19	1
Cyclohexane	0.65	J	0.69	0.12	ug/m3			10/07/22 16:19	1
Carbon tetrachloride	0.26		0.22	0.20	ug/m3			10/07/22 16:19	1
2,2,4-Trimethylpentane	3.3		0.93	0.16	ug/m3			10/07/22 16:19	1
Benzene	2.2		0.64	0.24	ug/m3			10/07/22 16:19	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 16:19	1
n-Heptane	2.5		0.82	0.24	ug/m3			10/07/22 16:19	1
Trichloroethene	45		0.20	0.13	ug/m3			10/07/22 16:19	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 16:19	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 16:19	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 16:19	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 16:19	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 16:19	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.3	J	2.0	0.78	ug/m3			10/07/22 16:19	1
Toluene	6.1		0.75	0.35	ug/m3			10/07/22 16:19	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 16:19	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 16:19	1
Tetrachloroethene	130		1.4	0.18	ug/m3			10/07/22 16:19	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 16:19	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 16:19	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 16:19	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 16:19	1
Ethylbenzene	2.2		0.87	0.43	ug/m3			10/07/22 16:19	1
m,p-Xylene	8.5		2.2	0.74	ug/m3			10/07/22 16:19	1
o-Xylene	2.4		0.87	0.41	ug/m3			10/07/22 16:19	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/07/22 16:19	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 16:19	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/07/22 16:19	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 16:19	1
n-Propylbenzene	0.27	J	0.98	0.23	ug/m3			10/07/22 16:19	1
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3			10/07/22 16:19	1

Client Sample ID: SV-03_20221004
Date Collected: 10/04/22 11:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.39	J	0.98	0.22	ug/m3			10/07/22 16:19	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 16:19	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 16:19	1
1,2,4-Trimethylbenzene	1.6		0.98	0.23	ug/m3			10/07/22 16:19	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 16:19	1
4-Isopropyltoluene	1.9		1.1	0.21	ug/m3			10/07/22 16:19	1
1,3-Dichlorobenzene	1.5		1.2	0.54	ug/m3			10/07/22 16:19	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 16:19	1
Benzyl chloride	1.0	U *+	1.0	0.38	ug/m3			10/07/22 16:19	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 16:19	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 16:19	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 16:19	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 16:19	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 16:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.46	J	0.50	0.11	ppb v/v			10/07/22 16:19	1
Chlorodifluoromethane	2.3		0.50	0.11	ppb v/v			10/07/22 16:19	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 16:19	1
Chloromethane	0.20	J	0.50	0.12	ppb v/v			10/07/22 16:19	1
n-Butane	4.2		0.50	0.19	ppb v/v			10/07/22 16:19	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 16:19	1
1,3-Butadiene	1.2		0.20	0.038	ppb v/v			10/07/22 16:19	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 16:19	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 16:19	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 16:19	1
Trichlorofluoromethane	0.25		0.20	0.052	ppb v/v			10/07/22 16:19	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 16:19	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 16:19	1
Acetone	34		5.0	2.0	ppb v/v			10/07/22 16:19	1
Isopropyl alcohol	9.6		5.0	0.98	ppb v/v			10/07/22 16:19	1
Carbon disulfide	0.75		0.50	0.13	ppb v/v			10/07/22 16:19	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 16:19	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/07/22 16:19	1
tert-Butyl alcohol	12		5.0	1.2	ppb v/v			10/07/22 16:19	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 16:19	1
trans-1,2-Dichloroethene	0.15	J	0.20	0.088	ppb v/v			10/07/22 16:19	1
n-Hexane	0.93		0.50	0.23	ppb v/v			10/07/22 16:19	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 16:19	1
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.17	ppb v/v			10/07/22 16:19	1
cis-1,2-Dichloroethene	24		0.050	0.033	ppb v/v			10/07/22 16:19	1
Chloroform	2.0		0.20	0.046	ppb v/v			10/07/22 16:19	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 16:19	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 16:19	1
Cyclohexane	0.19	J	0.20	0.035	ppb v/v			10/07/22 16:19	1
Carbon tetrachloride	0.042		0.035	0.032	ppb v/v			10/07/22 16:19	1
2,2,4-Trimethylpentane	0.71		0.20	0.035	ppb v/v			10/07/22 16:19	1
Benzene	0.69		0.20	0.074	ppb v/v			10/07/22 16:19	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 16:19	1

Client Sample ID: SV-03_20221004

Lab Sample ID: 200-65197-2

Date Collected: 10/04/22 11:00
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	0.61		0.20	0.059	ppb v/v			10/07/22 16:19	1
Trichloroethene	8.4		0.037	0.024	ppb v/v			10/07/22 16:19	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 16:19	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 16:19	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 16:19	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 16:19	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 16:19	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.31	J	0.50	0.19	ppb v/v			10/07/22 16:19	1
Toluene	1.6		0.20	0.093	ppb v/v			10/07/22 16:19	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 16:19	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 16:19	1
Tetrachloroethene	19		0.20	0.027	ppb v/v			10/07/22 16:19	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 16:19	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 16:19	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 16:19	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 16:19	1
Ethylbenzene	0.51		0.20	0.10	ppb v/v			10/07/22 16:19	1
m,p-Xylene	1.9		0.50	0.17	ppb v/v			10/07/22 16:19	1
o-Xylene	0.56		0.20	0.094	ppb v/v			10/07/22 16:19	1
Styrene	0.20	U	0.20	0.032	ppb v/v			10/07/22 16:19	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 16:19	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/07/22 16:19	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 16:19	1
n-Propylbenzene	0.054	J	0.20	0.047	ppb v/v			10/07/22 16:19	1
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v			10/07/22 16:19	1
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v			10/07/22 16:19	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 16:19	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 16:19	1
1,2,4-Trimethylbenzene	0.32		0.20	0.047	ppb v/v			10/07/22 16:19	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 16:19	1
4-Isopropyltoluene	0.35		0.20	0.039	ppb v/v			10/07/22 16:19	1
1,3-Dichlorobenzene	0.25		0.20	0.089	ppb v/v			10/07/22 16:19	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 16:19	1
Benzyl chloride	0.20	U *+	0.20	0.074	ppb v/v			10/07/22 16:19	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 16:19	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 16:19	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 16:19	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 16:19	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 16:19	1

Client Sample ID: SV-05_20221004

Lab Sample ID: 200-65197-3

Date Collected: 10/04/22 14:00
Matrix: Air
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.3	J	2.5	0.54	ug/m3			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodifluoromethane	2.2		1.8	0.39	ug/m3			10/07/22 17:11	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 17:11	1
Chloromethane	0.27	J	1.0	0.25	ug/m3			10/07/22 17:11	1
n-Butane	25		1.2	0.45	ug/m3			10/07/22 17:11	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 17:11	1
1,3-Butadiene	6.6		0.44	0.084	ug/m3			10/07/22 17:11	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 17:11	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 17:11	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 17:11	1
Trichlorofluoromethane	3.3		1.1	0.29	ug/m3			10/07/22 17:11	1
1,1,2-Trichlorotrifluoroethane	0.56	J	1.5	0.42	ug/m3			10/07/22 17:11	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 17:11	1
Acetone	87		12	4.8	ug/m3			10/07/22 17:11	1
Isopropyl alcohol	11	J	12	2.4	ug/m3			10/07/22 17:11	1
Carbon disulfide	5.4		1.6	0.40	ug/m3			10/07/22 17:11	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 17:11	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/07/22 17:11	1
tert-Butyl alcohol	28		15	3.6	ug/m3			10/07/22 17:11	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 17:11	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/07/22 17:11	1
n-Hexane	7.0		1.8	0.81	ug/m3			10/07/22 17:11	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 17:11	1
Methyl Ethyl Ketone (2-Butanone)	11		1.5	0.50	ug/m3			10/07/22 17:11	1
cis-1,2-Dichloroethene	45		0.20	0.13	ug/m3			10/07/22 17:11	1
Chloroform	27		0.98	0.22	ug/m3			10/07/22 17:11	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 17:11	1
1,1,1-Trichloroethane	0.33	J	1.1	0.21	ug/m3			10/07/22 17:11	1
Cyclohexane	2.0		0.69	0.12	ug/m3			10/07/22 17:11	1
Carbon tetrachloride	0.28		0.22	0.20	ug/m3			10/07/22 17:11	1
2,2,4-Trimethylpentane	3.5		0.93	0.16	ug/m3			10/07/22 17:11	1
Benzene	3.9		0.64	0.24	ug/m3			10/07/22 17:11	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 17:11	1
n-Heptane	5.8		0.82	0.24	ug/m3			10/07/22 17:11	1
Trichloroethene	25		0.20	0.13	ug/m3			10/07/22 17:11	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 17:11	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 17:11	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 17:11	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 17:11	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 17:11	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.7	J	2.0	0.78	ug/m3			10/07/22 17:11	1
Toluene	5.8		0.75	0.35	ug/m3			10/07/22 17:11	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 17:11	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 17:11	1
Tetrachloroethene	380	E	1.4	0.18	ug/m3			10/07/22 17:11	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 17:11	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 17:11	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 17:11	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	2.9		0.87	0.43	ug/m3			10/07/22 17:11	1
m,p-Xylene	9.0		2.2	0.74	ug/m3			10/07/22 17:11	1
o-Xylene	2.6		0.87	0.41	ug/m3			10/07/22 17:11	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/07/22 17:11	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 17:11	1
Cumene	0.39	J	0.98	0.18	ug/m3			10/07/22 17:11	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 17:11	1
n-Propylbenzene	0.28	J	0.98	0.23	ug/m3			10/07/22 17:11	1
4-Ethyltoluene	0.39	J	0.98	0.25	ug/m3			10/07/22 17:11	1
1,3,5-Trimethylbenzene	0.38	J	0.98	0.22	ug/m3			10/07/22 17:11	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 17:11	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 17:11	1
1,2,4-Trimethylbenzene	1.5		0.98	0.23	ug/m3			10/07/22 17:11	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 17:11	1
4-Isopropyltoluene	3.6		1.1	0.21	ug/m3			10/07/22 17:11	1
1,3-Dichlorobenzene	2.6		1.2	0.54	ug/m3			10/07/22 17:11	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 17:11	1
Benzyl chloride	1.0	U *+	1.0	0.38	ug/m3			10/07/22 17:11	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 17:11	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 17:11	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 17:11	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 17:11	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 17:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.47	J	0.50	0.11	ppb v/v			10/07/22 17:11	1
Chlorodifluoromethane	0.62		0.50	0.11	ppb v/v			10/07/22 17:11	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 17:11	1
Chloromethane	0.13	J	0.50	0.12	ppb v/v			10/07/22 17:11	1
n-Butane	11		0.50	0.19	ppb v/v			10/07/22 17:11	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 17:11	1
1,3-Butadiene	3.0		0.20	0.038	ppb v/v			10/07/22 17:11	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 17:11	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 17:11	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 17:11	1
Trichlorofluoromethane	0.60		0.20	0.052	ppb v/v			10/07/22 17:11	1
1,1,2-Trichlorotrifluoroethane	0.074	J	0.20	0.055	ppb v/v			10/07/22 17:11	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 17:11	1
Acetone	36		5.0	2.0	ppb v/v			10/07/22 17:11	1
Isopropyl alcohol	4.3	J	5.0	0.98	ppb v/v			10/07/22 17:11	1
Carbon disulfide	1.7		0.50	0.13	ppb v/v			10/07/22 17:11	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 17:11	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/07/22 17:11	1
tert-Butyl alcohol	9.4		5.0	1.2	ppb v/v			10/07/22 17:11	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 17:11	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/07/22 17:11	1
n-Hexane	2.0		0.50	0.23	ppb v/v			10/07/22 17:11	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 17:11	1
Methyl Ethyl Ketone (2-Butanone)	3.9		0.50	0.17	ppb v/v			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	11		0.050	0.033	ppb v/v			10/07/22 17:11	1
Chloroform	5.5		0.20	0.046	ppb v/v			10/07/22 17:11	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 17:11	1
1,1,1-Trichloroethane	0.061	J	0.20	0.039	ppb v/v			10/07/22 17:11	1
Cyclohexane	0.59		0.20	0.035	ppb v/v			10/07/22 17:11	1
Carbon tetrachloride	0.044		0.035	0.032	ppb v/v			10/07/22 17:11	1
2,2,4-Trimethylpentane	0.75		0.20	0.035	ppb v/v			10/07/22 17:11	1
Benzene	1.2		0.20	0.074	ppb v/v			10/07/22 17:11	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 17:11	1
n-Heptane	1.4		0.20	0.059	ppb v/v			10/07/22 17:11	1
Trichloroethene	4.7		0.037	0.024	ppb v/v			10/07/22 17:11	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 17:11	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 17:11	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 17:11	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 17:11	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 17:11	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.41	J	0.50	0.19	ppb v/v			10/07/22 17:11	1
Toluene	1.5		0.20	0.093	ppb v/v			10/07/22 17:11	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 17:11	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 17:11	1
Tetrachloroethene	57	E	0.20	0.027	ppb v/v			10/07/22 17:11	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 17:11	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 17:11	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 17:11	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 17:11	1
Ethylbenzene	0.66		0.20	0.10	ppb v/v			10/07/22 17:11	1
m,p-Xylene	2.1		0.50	0.17	ppb v/v			10/07/22 17:11	1
o-Xylene	0.60		0.20	0.094	ppb v/v			10/07/22 17:11	1
Styrene	0.20	U	0.20	0.032	ppb v/v			10/07/22 17:11	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 17:11	1
Cumene	0.080	J	0.20	0.037	ppb v/v			10/07/22 17:11	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 17:11	1
n-Propylbenzene	0.056	J	0.20	0.047	ppb v/v			10/07/22 17:11	1
4-Ethyltoluene	0.080	J	0.20	0.051	ppb v/v			10/07/22 17:11	1
1,3,5-Trimethylbenzene	0.078	J	0.20	0.044	ppb v/v			10/07/22 17:11	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 17:11	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 17:11	1
1,2,4-Trimethylbenzene	0.31		0.20	0.047	ppb v/v			10/07/22 17:11	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 17:11	1
4-Isopropyltoluene	0.65		0.20	0.039	ppb v/v			10/07/22 17:11	1
1,3-Dichlorobenzene	0.44		0.20	0.089	ppb v/v			10/07/22 17:11	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 17:11	1
Benzyl chloride	0.20	U *+	0.20	0.074	ppb v/v			10/07/22 17:11	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 17:11	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 17:11	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 17:11	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 17:11	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 17:11	1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.4	J D	4.9	1.1	ug/m3			10/07/22 18:03	2
Chlorodifluoromethane	2.3	J D	3.5	0.78	ug/m3			10/07/22 18:03	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.77	ug/m3			10/07/22 18:03	2
Chloromethane	2.1	U	2.1	0.50	ug/m3			10/07/22 18:03	2
n-Butane	26	D	2.4	0.90	ug/m3			10/07/22 18:03	2
Vinyl chloride	0.40	U	0.40	0.14	ug/m3			10/07/22 18:03	2
1,3-Butadiene	7.0	D	0.88	0.17	ug/m3			10/07/22 18:03	2
Bromomethane	1.6	U	1.6	0.40	ug/m3			10/07/22 18:03	2
Chloroethane	2.6	U	2.6	1.3	ug/m3			10/07/22 18:03	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.74	ug/m3			10/07/22 18:03	2
Trichlorofluoromethane	3.4	D	2.2	0.58	ug/m3			10/07/22 18:03	2
1,1,2-Trichlorotrifluoroethane	3.1	U	3.1	0.84	ug/m3			10/07/22 18:03	2
1,1-Dichloroethene	0.40	U	0.40	0.23	ug/m3			10/07/22 18:03	2
Acetone	87	D	24	9.5	ug/m3			10/07/22 18:03	2
Isopropyl alcohol	10	J D	25	4.8	ug/m3			10/07/22 18:03	2
Carbon disulfide	5.4	D	3.1	0.81	ug/m3			10/07/22 18:03	2
3-Chloropropene	3.1	U	3.1	0.69	ug/m3			10/07/22 18:03	2
Methylene Chloride	3.5	U	3.5	1.2	ug/m3			10/07/22 18:03	2
tert-Butyl alcohol	28	J D	30	7.3	ug/m3			10/07/22 18:03	2
Methyl tert-butyl ether	1.4	U	1.4	0.58	ug/m3			10/07/22 18:03	2
trans-1,2-Dichloroethene	1.6	U	1.6	0.70	ug/m3			10/07/22 18:03	2
n-Hexane	7.0	D	3.5	1.6	ug/m3			10/07/22 18:03	2
1,1-Dichloroethane	1.6	U	1.6	0.23	ug/m3			10/07/22 18:03	2
Methyl Ethyl Ketone (2-Butanone)	11	D	2.9	1.0	ug/m3			10/07/22 18:03	2
cis-1,2-Dichloroethene	45	D	0.40	0.26	ug/m3			10/07/22 18:03	2
Chloroform	27	D	2.0	0.45	ug/m3			10/07/22 18:03	2
Tetrahydrofuran	29	U	29	7.1	ug/m3			10/07/22 18:03	2
1,1,1-Trichloroethane	2.2	U	2.2	0.43	ug/m3			10/07/22 18:03	2
Cyclohexane	2.0	D	1.4	0.24	ug/m3			10/07/22 18:03	2
Carbon tetrachloride	0.44	U	0.44	0.40	ug/m3			10/07/22 18:03	2
2,2,4-Trimethylpentane	3.5	D	1.9	0.33	ug/m3			10/07/22 18:03	2
Benzene	4.0	D	1.3	0.47	ug/m3			10/07/22 18:03	2
1,2-Dichloroethane	1.6	U	1.6	1.2	ug/m3			10/07/22 18:03	2
n-Heptane	5.7	D	1.6	0.48	ug/m3			10/07/22 18:03	2
Trichloroethene	25	D	0.40	0.26	ug/m3			10/07/22 18:03	2
Methyl methacrylate	4.1	U	4.1	1.3	ug/m3			10/07/22 18:03	2
1,2-Dichloropropane	1.8	U	1.8	0.80	ug/m3			10/07/22 18:03	2
1,4-Dioxane	36	U	36	12	ug/m3			10/07/22 18:03	2
Bromodichloromethane	2.7	U	2.7	0.54	ug/m3			10/07/22 18:03	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.18	ug/m3			10/07/22 18:03	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	4.1	U	4.1	1.6	ug/m3			10/07/22 18:03	2
Toluene	5.8	D	1.5	0.70	ug/m3			10/07/22 18:03	2
trans-1,3-Dichloropropene	1.8	U	1.8	0.81	ug/m3			10/07/22 18:03	2
1,1,2-Trichloroethane	2.2	U	2.2	0.37	ug/m3			10/07/22 18:03	2
Tetrachloroethene	390	D	2.7	0.37	ug/m3			10/07/22 18:03	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	1.6	ug/m3			10/07/22 18:03	2
Dibromochloromethane	3.4	U	3.4	0.53	ug/m3			10/07/22 18:03	2
1,2-Dibromoethane	3.1	U	3.1	0.71	ug/m3			10/07/22 18:03	2

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.8	U	1.8	0.40	ug/m3			10/07/22 18:03	2
Ethylbenzene	**2.8**	**D**	1.7	0.87	ug/m3			10/07/22 18:03	2
m,p-Xylene	**8.6**	**D**	4.3	1.5	ug/m3			10/07/22 18:03	2
o-Xylene	**2.6**	**D**	1.7	0.82	ug/m3			10/07/22 18:03	2
Styrene	1.7	U	1.7	0.27	ug/m3			10/07/22 18:03	2
Bromoform	4.1	U	4.1	1.2	ug/m3			10/07/22 18:03	2
Cumene	2.0	U	2.0	0.36	ug/m3			10/07/22 18:03	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	0.59	ug/m3			10/07/22 18:03	2
n-Propylbenzene	2.0	U	2.0	0.46	ug/m3			10/07/22 18:03	2
4-Ethyltoluene	2.0	U	2.0	0.50	ug/m3			10/07/22 18:03	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.43	ug/m3			10/07/22 18:03	2
2-Chlorotoluene	2.1	U	2.1	0.50	ug/m3			10/07/22 18:03	2
tert-Butylbenzene	2.2	U	2.2	0.41	ug/m3			10/07/22 18:03	2
1,2,4-Trimethylbenzene	**1.4**	**J D**	2.0	0.46	ug/m3			10/07/22 18:03	2
sec-Butylbenzene	2.2	U	2.2	0.43	ug/m3			10/07/22 18:03	2
4-Isopropyltoluene	**3.5**	**D**	2.2	0.43	ug/m3			10/07/22 18:03	2
1,3-Dichlorobenzene	**2.6**	**D**	2.4	1.1	ug/m3			10/07/22 18:03	2
1,4-Dichlorobenzene	2.4	U	2.4	1.1	ug/m3			10/07/22 18:03	2
Benzyl chloride	2.1	U *+	2.1	0.77	ug/m3			10/07/22 18:03	2
n-Butylbenzene	2.2	U	2.2	0.60	ug/m3			10/07/22 18:03	2
1,2-Dichlorobenzene	2.4	U	2.4	0.84	ug/m3			10/07/22 18:03	2
1,2,4-Trichlorobenzene	7.4	U	7.4	2.8	ug/m3			10/07/22 18:03	2
Hexachlorobutadiene	4.3	U	4.3	0.66	ug/m3			10/07/22 18:03	2
Naphthalene	5.2	U	5.2	1.8	ug/m3			10/07/22 18:03	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.49**	**J D**	1.0	0.22	ppb v/v			10/07/22 18:03	2
Chlorodifluoromethane	**0.65**	**J D**	1.0	0.22	ppb v/v			10/07/22 18:03	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.11	ppb v/v			10/07/22 18:03	2
Chloromethane	1.0	U	1.0	0.24	ppb v/v			10/07/22 18:03	2
n-Butane	**11**	**D**	1.0	0.38	ppb v/v			10/07/22 18:03	2
Vinyl chloride	0.16	U	0.16	0.056	ppb v/v			10/07/22 18:03	2
1,3-Butadiene	**3.1**	**D**	0.40	0.076	ppb v/v			10/07/22 18:03	2
Bromomethane	0.40	U	0.40	0.10	ppb v/v			10/07/22 18:03	2
Chloroethane	1.0	U	1.0	0.50	ppb v/v			10/07/22 18:03	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.17	ppb v/v			10/07/22 18:03	2
Trichlorofluoromethane	**0.61**	**D**	0.40	0.10	ppb v/v			10/07/22 18:03	2
1,1,2-Trichlorotrifluoroethane	0.40	U	0.40	0.11	ppb v/v			10/07/22 18:03	2
1,1-Dichloroethene	0.10	U	0.10	0.058	ppb v/v			10/07/22 18:03	2
Acetone	**36**	**D**	10	4.0	ppb v/v			10/07/22 18:03	2
Isopropyl alcohol	**4.3**	**J D**	10	2.0	ppb v/v			10/07/22 18:03	2
Carbon disulfide	**1.7**	**D**	1.0	0.26	ppb v/v			10/07/22 18:03	2
3-Chloropropene	1.0	U	1.0	0.22	ppb v/v			10/07/22 18:03	2
Methylene Chloride	1.0	U	1.0	0.34	ppb v/v			10/07/22 18:03	2
tert-Butyl alcohol	**9.3**	**J D**	10	2.4	ppb v/v			10/07/22 18:03	2
Methyl tert-butyl ether	0.40	U	0.40	0.16	ppb v/v			10/07/22 18:03	2
trans-1,2-Dichloroethene	0.40	U	0.40	0.18	ppb v/v			10/07/22 18:03	2
n-Hexane	**2.0**	**D**	1.0	0.46	ppb v/v			10/07/22 18:03	2
1,1-Dichloroethane	0.40	U	0.40	0.058	ppb v/v			10/07/22 18:03	2

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	3.8	D	1.0	0.34	ppb v/v			10/07/22 18:03	2
cis-1,2-Dichloroethene	11	D	0.10	0.066	ppb v/v			10/07/22 18:03	2
Chloroform	5.5	D	0.40	0.092	ppb v/v			10/07/22 18:03	2
Tetrahydrofuran	10	U	10	2.4	ppb v/v			10/07/22 18:03	2
1,1,1-Trichloroethane	0.40	U	0.40	0.078	ppb v/v			10/07/22 18:03	2
Cyclohexane	0.59	D	0.40	0.070	ppb v/v			10/07/22 18:03	2
Carbon tetrachloride	0.070	U	0.070	0.064	ppb v/v			10/07/22 18:03	2
2,2,4-Trimethylpentane	0.74	D	0.40	0.070	ppb v/v			10/07/22 18:03	2
Benzene	1.2	D	0.40	0.15	ppb v/v			10/07/22 18:03	2
1,2-Dichloroethane	0.40	U	0.40	0.30	ppb v/v			10/07/22 18:03	2
n-Heptane	1.4	D	0.40	0.12	ppb v/v			10/07/22 18:03	2
Trichloroethene	4.7	D	0.074	0.048	ppb v/v			10/07/22 18:03	2
Methyl methacrylate	1.0	U	1.0	0.32	ppb v/v			10/07/22 18:03	2
1,2-Dichloropropane	0.40	U	0.40	0.17	ppb v/v			10/07/22 18:03	2
1,4-Dioxane	10	U	10	3.4	ppb v/v			10/07/22 18:03	2
Bromodichloromethane	0.40	U	0.40	0.080	ppb v/v			10/07/22 18:03	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.040	ppb v/v			10/07/22 18:03	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	U	1.0	0.38	ppb v/v			10/07/22 18:03	2
Toluene	1.5	D	0.40	0.19	ppb v/v			10/07/22 18:03	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.18	ppb v/v			10/07/22 18:03	2
1,1,2-Trichloroethane	0.40	U	0.40	0.068	ppb v/v			10/07/22 18:03	2
Tetrachloroethene	58	D	0.40	0.054	ppb v/v			10/07/22 18:03	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.40	ppb v/v			10/07/22 18:03	2
Dibromochloromethane	0.40	U	0.40	0.062	ppb v/v			10/07/22 18:03	2
1,2-Dibromoethane	0.40	U	0.40	0.092	ppb v/v			10/07/22 18:03	2
Chlorobenzene	0.40	U	0.40	0.086	ppb v/v			10/07/22 18:03	2
Ethylbenzene	0.65	D	0.40	0.20	ppb v/v			10/07/22 18:03	2
m,p-Xylene	2.0	D	1.0	0.34	ppb v/v			10/07/22 18:03	2
o-Xylene	0.59	D	0.40	0.19	ppb v/v			10/07/22 18:03	2
Styrene	0.40	U	0.40	0.064	ppb v/v			10/07/22 18:03	2
Bromoform	0.40	U	0.40	0.12	ppb v/v			10/07/22 18:03	2
Cumene	0.40	U	0.40	0.074	ppb v/v			10/07/22 18:03	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.086	ppb v/v			10/07/22 18:03	2
n-Propylbenzene	0.40	U	0.40	0.094	ppb v/v			10/07/22 18:03	2
4-Ethyltoluene	0.40	U	0.40	0.10	ppb v/v			10/07/22 18:03	2
1,3,5-Trimethylbenzene	0.40	U	0.40	0.088	ppb v/v			10/07/22 18:03	2
2-Chlorotoluene	0.40	U	0.40	0.096	ppb v/v			10/07/22 18:03	2
tert-Butylbenzene	0.40	U	0.40	0.074	ppb v/v			10/07/22 18:03	2
1,2,4-Trimethylbenzene	0.29	J D	0.40	0.094	ppb v/v			10/07/22 18:03	2
sec-Butylbenzene	0.40	U	0.40	0.078	ppb v/v			10/07/22 18:03	2
4-Isopropyltoluene	0.64	D	0.40	0.078	ppb v/v			10/07/22 18:03	2
1,3-Dichlorobenzene	0.44	D	0.40	0.18	ppb v/v			10/07/22 18:03	2
1,4-Dichlorobenzene	0.40	U	0.40	0.19	ppb v/v			10/07/22 18:03	2
Benzyl chloride	0.40	U *+	0.40	0.15	ppb v/v			10/07/22 18:03	2
n-Butylbenzene	0.40	U	0.40	0.11	ppb v/v			10/07/22 18:03	2
1,2-Dichlorobenzene	0.40	U	0.40	0.14	ppb v/v			10/07/22 18:03	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.38	ppb v/v			10/07/22 18:03	2
Hexachlorobutadiene	0.40	U	0.40	0.062	ppb v/v			10/07/22 18:03	2

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Client Sample ID: SV-05_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/05/22 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-65197-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.0	U	1.0	0.34	ppb v/v			10/07/22 18:03	2

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	0.54	ug/m3			10/06/22 10:05	1
Chlorodifluoromethane	1.8	U	1.8	0.39	ug/m3			10/06/22 10:05	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/06/22 10:05	1
Chloromethane	1.0	U	1.0	0.25	ug/m3			10/06/22 10:05	1
n-Butane	1.2	U	1.2	0.45	ug/m3			10/06/22 10:05	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/06/22 10:05	1
1,3-Butadiene	0.44	U	0.44	0.084	ug/m3			10/06/22 10:05	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/06/22 10:05	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/06/22 10:05	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/06/22 10:05	1
Trichlorofluoromethane	1.1	U	1.1	0.29	ug/m3			10/06/22 10:05	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/06/22 10:05	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/06/22 10:05	1
Acetone	12	U	12	4.8	ug/m3			10/06/22 10:05	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			10/06/22 10:05	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			10/06/22 10:05	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/06/22 10:05	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/06/22 10:05	1
tert-Butyl alcohol	15	U	15	3.6	ug/m3			10/06/22 10:05	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/06/22 10:05	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/06/22 10:05	1
n-Hexane	1.8	U	1.8	0.81	ug/m3			10/06/22 10:05	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/06/22 10:05	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.50	ug/m3			10/06/22 10:05	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			10/06/22 10:05	1
Chloroform	0.98	U	0.98	0.22	ug/m3			10/06/22 10:05	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/06/22 10:05	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/06/22 10:05	1
Cyclohexane	0.69	U	0.69	0.12	ug/m3			10/06/22 10:05	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			10/06/22 10:05	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.16	ug/m3			10/06/22 10:05	1
Benzene	0.64	U	0.64	0.24	ug/m3			10/06/22 10:05	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/06/22 10:05	1
n-Heptane	0.82	U	0.82	0.24	ug/m3			10/06/22 10:05	1
Trichloroethene	0.20	U	0.20	0.13	ug/m3			10/06/22 10:05	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/06/22 10:05	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/06/22 10:05	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/06/22 10:05	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/06/22 10:05	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/06/22 10:05	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			10/06/22 10:05	1
Toluene	0.75	U	0.75	0.35	ug/m3			10/06/22 10:05	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/06/22 10:05	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/06/22 10:05	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			10/06/22 10:05	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/06/22 10:05	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/06/22 10:05	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/06/22 10:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/06/22 10:05	1
Ethylbenzene	0.87	U	0.87	0.43	ug/m3			10/06/22 10:05	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			10/06/22 10:05	1
o-Xylene	0.87	U	0.87	0.41	ug/m3			10/06/22 10:05	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/06/22 10:05	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/06/22 10:05	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/06/22 10:05	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/06/22 10:05	1
n-Propylbenzene	0.98	U	0.98	0.23	ug/m3			10/06/22 10:05	1
4-Ethyltoluene	0.98	U	0.98	0.25	ug/m3			10/06/22 10:05	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			10/06/22 10:05	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/06/22 10:05	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/06/22 10:05	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			10/06/22 10:05	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/06/22 10:05	1
4-Isopropyltoluene	1.1	U	1.1	0.21	ug/m3			10/06/22 10:05	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			10/06/22 10:05	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/06/22 10:05	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/06/22 10:05	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/06/22 10:05	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/06/22 10:05	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/06/22 10:05	1
Hexachlorobutadiene	0.368	J	2.1	0.33	ug/m3			10/06/22 10:05	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/06/22 10:05	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/06/22 10:05	1
Chlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/06/22 10:05	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 10:05	1
Chloromethane	0.50	U	0.50	0.12	ppb v/v			10/06/22 10:05	1
n-Butane	0.50	U	0.50	0.19	ppb v/v			10/06/22 10:05	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/06/22 10:05	1
1,3-Butadiene	0.20	U	0.20	0.038	ppb v/v			10/06/22 10:05	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/06/22 10:05	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/06/22 10:05	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/06/22 10:05	1
Trichlorofluoromethane	0.20	U	0.20	0.052	ppb v/v			10/06/22 10:05	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/06/22 10:05	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/06/22 10:05	1
Acetone	5.0	U	5.0	2.0	ppb v/v			10/06/22 10:05	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			10/06/22 10:05	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			10/06/22 10:05	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/06/22 10:05	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1
tert-Butyl alcohol	5.0	U	5.0	1.2	ppb v/v			10/06/22 10:05	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/06/22 10:05	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/06/22 10:05	1
n-Hexane	0.50	U	0.50	0.23	ppb v/v			10/06/22 10:05	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/06/22 10:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			10/06/22 10:05	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			10/06/22 10:05	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/06/22 10:05	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/06/22 10:05	1
Cyclohexane	0.20	U	0.20	0.035	ppb v/v			10/06/22 10:05	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			10/06/22 10:05	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.035	ppb v/v			10/06/22 10:05	1
Benzene	0.20	U	0.20	0.074	ppb v/v			10/06/22 10:05	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/06/22 10:05	1
n-Heptane	0.20	U	0.20	0.059	ppb v/v			10/06/22 10:05	1
Trichloroethene	0.037	U	0.037	0.024	ppb v/v			10/06/22 10:05	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/06/22 10:05	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/06/22 10:05	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/06/22 10:05	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/06/22 10:05	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/06/22 10:05	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			10/06/22 10:05	1
Toluene	0.20	U	0.20	0.093	ppb v/v			10/06/22 10:05	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/06/22 10:05	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/06/22 10:05	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			10/06/22 10:05	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/06/22 10:05	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/06/22 10:05	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/06/22 10:05	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/06/22 10:05	1
Ethylbenzene	0.20	U	0.20	0.10	ppb v/v			10/06/22 10:05	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1
o-Xylene	0.20	U	0.20	0.094	ppb v/v			10/06/22 10:05	1
Styrene	0.20	U	0.20	0.032	ppb v/v			10/06/22 10:05	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/06/22 10:05	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/06/22 10:05	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/06/22 10:05	1
n-Propylbenzene	0.20	U	0.20	0.047	ppb v/v			10/06/22 10:05	1
4-Ethyltoluene	0.20	U	0.20	0.051	ppb v/v			10/06/22 10:05	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			10/06/22 10:05	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/06/22 10:05	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/06/22 10:05	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			10/06/22 10:05	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/06/22 10:05	1
4-Isopropyltoluene	0.20	U	0.20	0.039	ppb v/v			10/06/22 10:05	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			10/06/22 10:05	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/06/22 10:05	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/06/22 10:05	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/06/22 10:05	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/06/22 10:05	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/06/22 10:05	1
Hexachlorobutadiene	0.0345	J	0.20	0.031	ppb v/v			10/06/22 10:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184353/4
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/06/22 10:05	1

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	50.9		ug/m3		103	61 - 142
Chlorodifluoromethane	35.4	37.1		ug/m3		105	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	71.0		ug/m3		102	71 - 141
Chloromethane	20.6	21.2		ug/m3		102	56 - 141
n-Butane	23.8	24.3		ug/m3		102	53 - 151
Vinyl chloride	25.6	27.0		ug/m3		106	61 - 135
1,3-Butadiene	22.1	22.9		ug/m3		104	58 - 139
Bromomethane	38.8	39.4		ug/m3		101	72 - 124
Chloroethane	26.4	27.9		ug/m3		106	68 - 130
Bromoethene(Vinyl Bromide)	43.7	45.5		ug/m3		104	75 - 125
Trichlorofluoromethane	56.2	57.0		ug/m3		102	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	75.6		ug/m3		99	70 - 121
1,1-Dichloroethene	39.6	36.3		ug/m3		92	68 - 120
Acetone	23.7	24.6		ug/m3		104	54 - 154
Isopropyl alcohol	24.6	25.3		ug/m3		103	53 - 142
Carbon disulfide	31.1	31.7		ug/m3		102	71 - 138
3-Chloropropene	31.3	30.4		ug/m3		97	50 - 150
Methylene Chloride	34.7	35.3		ug/m3		102	59 - 137
tert-Butyl alcohol	30.3	30.9		ug/m3		102	66 - 132
Methyl tert-butyl ether	36.0	34.9		ug/m3		97	70 - 127
trans-1,2-Dichloroethene	39.6	41.1		ug/m3		104	69 - 137
n-Hexane	35.2	34.3		ug/m3		97	63 - 138
1,1-Dichloroethane	40.5	43.1		ug/m3		106	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	28.7		ug/m3		97	72 - 124
cis-1,2-Dichloroethene	39.6	41.5		ug/m3		105	72 - 121
Chloroform	48.8	48.2		ug/m3		99	73 - 124
Tetrahydrofuran	29.5	27.7		ug/m3		94	60 - 149
1,1,1-Trichloroethane	54.6	50.0		ug/m3		92	72 - 127
Cyclohexane	34.4	31.0		ug/m3		90	76 - 124
Carbon tetrachloride	62.9	62.0		ug/m3		99	71 - 133
2,2,4-Trimethylpentane	46.7	41.8		ug/m3		89	68 - 131
Benzene	31.9	27.4		ug/m3		86	73 - 119
1,2-Dichloroethane	40.5	36.5		ug/m3		90	68 - 135
n-Heptane	41.0	34.7		ug/m3		85	60 - 142
Trichloroethene	53.7	50.0		ug/m3		93	73 - 122
Methyl methacrylate	40.9	36.7		ug/m3		90	73 - 129
1,2-Dichloropropane	46.2	39.8		ug/m3		86	69 - 128
1,4-Dioxane	36.0	31.3		ug/m3		87	66 - 129
Bromodichloromethane	67.0	62.8		ug/m3		94	75 - 127
cis-1,3-Dichloropropene	45.4	39.9		ug/m3		88	74 - 125

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	36.6		ug/m3		89	58 - 144
Toluene	37.7	33.5		ug/m3		89	75 - 122
trans-1,3-Dichloropropene	45.4	40.7		ug/m3		90	74 - 128
1,1,2-Trichloroethane	54.6	50.4		ug/m3		92	75 - 126
Tetrachloroethene	67.8	63.1		ug/m3		93	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	38.3		ug/m3		94	57 - 143
Dibromochloromethane	85.2	81.2		ug/m3		95	73 - 125
1,2-Dibromoethane	76.8	70.2		ug/m3		91	78 - 122
Chlorobenzene	46.0	41.9		ug/m3		91	76 - 119
Ethylbenzene	43.4	38.1		ug/m3		88	74 - 122
m,p-Xylene	86.8	80.2		ug/m3		92	76 - 121
o-Xylene	43.4	37.8		ug/m3		87	73 - 123
Styrene	42.6	39.0		ug/m3		92	74 - 125
Bromoform	103	97.7		ug/m3		95	53 - 149
Cumene	49.1	44.2		ug/m3		90	73 - 123
1,1,2,2-Tetrachloroethane	68.6	62.0		ug/m3		90	74 - 126
n-Propylbenzene	49.1	43.6		ug/m3		89	73 - 127
4-Ethyltoluene	49.2	43.5		ug/m3		88	75 - 129
1,3,5-Trimethylbenzene	49.2	42.3		ug/m3		86	72 - 126
2-Chlorotoluene	51.8	46.7		ug/m3		90	74 - 126
tert-Butylbenzene	54.9	46.5		ug/m3		85	71 - 125
1,2,4-Trimethylbenzene	49.2	41.2		ug/m3		84	71 - 129
sec-Butylbenzene	54.9	45.8		ug/m3		84	70 - 128
4-Isopropyltoluene	54.9	45.3		ug/m3		83	68 - 130
1,3-Dichlorobenzene	60.1	51.7		ug/m3		86	69 - 131
1,4-Dichlorobenzene	60.1	51.7		ug/m3		86	67 - 132
Benzyl chloride	51.8	46.7		ug/m3		90	60 - 136
n-Butylbenzene	54.9	43.9		ug/m3		80	65 - 137
1,2-Dichlorobenzene	60.1	50.6		ug/m3		84	68 - 129
1,2,4-Trichlorobenzene	74.2	56.0		ug/m3		75	50 - 150
Hexachlorobutadiene	107	74.8		ug/m3		70	58 - 130
Naphthalene	52.4	39.4		ug/m3		75	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	10.3		ppb v/v		103	61 - 142
Chlorodifluoromethane	10	10.5		ppb v/v		105	60 - 147
1,2-Dichlorotetrafluoroethane	10	10.2		ppb v/v		102	71 - 141
Chloromethane	10	10.2		ppb v/v		102	56 - 141
n-Butane	10	10.2		ppb v/v		102	53 - 151
Vinyl chloride	10	10.6		ppb v/v		106	61 - 135
1,3-Butadiene	10	10.4		ppb v/v		104	58 - 139
Bromomethane	10	10.1		ppb v/v		101	72 - 124
Chloroethane	10	10.6		ppb v/v		106	68 - 130
Bromoethene(Vinyl Bromide)	10	10.4		ppb v/v		104	75 - 125
Trichlorofluoromethane	10	10.2		ppb v/v		102	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.87		ppb v/v		99	70 - 121
1,1-Dichloroethene	10	9.16		ppb v/v		92	68 - 120

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	10.4		ppb v/v		104	54 - 154
Isopropyl alcohol	10	10.3		ppb v/v		103	53 - 142
Carbon disulfide	10	10.2		ppb v/v		102	71 - 138
3-Chloropropene	10	9.72		ppb v/v		97	50 - 150
Methylene Chloride	10	10.2		ppb v/v		102	59 - 137
tert-Butyl alcohol	10	10.2		ppb v/v		102	66 - 132
Methyl tert-butyl ether	10	9.69		ppb v/v		97	70 - 127
trans-1,2-Dichloroethene	10	10.4		ppb v/v		104	69 - 137
n-Hexane	10	9.73		ppb v/v		97	63 - 138
1,1-Dichloroethane	10	10.6		ppb v/v		106	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	9.73		ppb v/v		97	72 - 124
cis-1,2-Dichloroethene	10	10.5		ppb v/v		105	72 - 121
Chloroform	10	9.87		ppb v/v		99	73 - 124
Tetrahydrofuran	10	9.40		ppb v/v		94	60 - 149
1,1,1-Trichloroethane	10	9.16		ppb v/v		92	72 - 127
Cyclohexane	10	9.00		ppb v/v		90	76 - 124
Carbon tetrachloride	10	9.85		ppb v/v		99	71 - 133
2,2,4-Trimethylpentane	10	8.94		ppb v/v		89	68 - 131
Benzene	10	8.57		ppb v/v		86	73 - 119
1,2-Dichloroethane	10	9.02		ppb v/v		90	68 - 135
n-Heptane	10	8.47		ppb v/v		85	60 - 142
Trichloroethene	10	9.30		ppb v/v		93	73 - 122
Methyl methacrylate	10	8.97		ppb v/v		90	73 - 129
1,2-Dichloropropane	10	8.60		ppb v/v		86	69 - 128
1,4-Dioxane	10	8.69		ppb v/v		87	66 - 129
Bromodichloromethane	10	9.37		ppb v/v		94	75 - 127
cis-1,3-Dichloropropene	10	8.79		ppb v/v		88	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	8.93		ppb v/v		89	58 - 144
Toluene	10	8.89		ppb v/v		89	75 - 122
trans-1,3-Dichloropropene	10	8.97		ppb v/v		90	74 - 128
1,1,2-Trichloroethane	10	9.24		ppb v/v		92	75 - 126
Tetrachloroethene	10	9.30		ppb v/v		93	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	9.36		ppb v/v		94	57 - 143
Dibromochloromethane	10	9.53		ppb v/v		95	73 - 125
1,2-Dibromoethane	10	9.14		ppb v/v		91	78 - 122
Chlorobenzene	10	9.10		ppb v/v		91	76 - 119
Ethylbenzene	10	8.78		ppb v/v		88	74 - 122
m,p-Xylene	20	18.5		ppb v/v		92	76 - 121
o-Xylene	10	8.70		ppb v/v		87	73 - 123
Styrene	10	9.15		ppb v/v		92	74 - 125
Bromoform	10	9.45		ppb v/v		95	53 - 149
Cumene	10	9.00		ppb v/v		90	73 - 123
1,1,2,2-Tetrachloroethane	10	9.03		ppb v/v		90	74 - 126
n-Propylbenzene	10	8.87		ppb v/v		89	73 - 127
4-Ethyltoluene	10	8.84		ppb v/v		88	75 - 129
1,3,5-Trimethylbenzene	10	8.61		ppb v/v		86	72 - 126

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184353/3
Matrix: Air
Analysis Batch: 184353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	10	9.02		ppb v/v		90	74 - 126
tert-Butylbenzene	10	8.47		ppb v/v		85	71 - 125
1,2,4-Trimethylbenzene	10	8.39		ppb v/v		84	71 - 129
sec-Butylbenzene	10	8.35		ppb v/v		84	70 - 128
4-Isopropyltoluene	10	8.25		ppb v/v		83	68 - 130
1,3-Dichlorobenzene	10	8.59		ppb v/v		86	69 - 131
1,4-Dichlorobenzene	10	8.61		ppb v/v		86	67 - 132
Benzyl chloride	10	9.03		ppb v/v		90	60 - 136
n-Butylbenzene	10	7.99		ppb v/v		80	65 - 137
1,2-Dichlorobenzene	10	8.41		ppb v/v		84	68 - 129
1,2,4-Trichlorobenzene	10	7.54		ppb v/v		75	50 - 150
Hexachlorobutadiene	10	7.02		ppb v/v		70	58 - 130
Naphthalene	10	7.53		ppb v/v		75	50 - 150

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	0.54	ug/m3			10/07/22 09:52	1
Chlorodifluoromethane	1.8	U	1.8	0.39	ug/m3			10/07/22 09:52	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.38	ug/m3			10/07/22 09:52	1
Chloromethane	1.0	U	1.0	0.25	ug/m3			10/07/22 09:52	1
n-Butane	1.2	U	1.2	0.45	ug/m3			10/07/22 09:52	1
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			10/07/22 09:52	1
1,3-Butadiene	0.44	U	0.44	0.084	ug/m3			10/07/22 09:52	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			10/07/22 09:52	1
Chloroethane	1.3	U	1.3	0.66	ug/m3			10/07/22 09:52	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.37	ug/m3			10/07/22 09:52	1
Trichlorofluoromethane	1.1	U	1.1	0.29	ug/m3			10/07/22 09:52	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.42	ug/m3			10/07/22 09:52	1
1,1-Dichloroethene	0.20	U	0.20	0.11	ug/m3			10/07/22 09:52	1
Acetone	12	U	12	4.8	ug/m3			10/07/22 09:52	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			10/07/22 09:52	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			10/07/22 09:52	1
3-Chloropropene	1.6	U	1.6	0.34	ug/m3			10/07/22 09:52	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			10/07/22 09:52	1
tert-Butyl alcohol	15	U	15	3.6	ug/m3			10/07/22 09:52	1
Methyl tert-butyl ether	0.72	U	0.72	0.29	ug/m3			10/07/22 09:52	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			10/07/22 09:52	1
n-Hexane	1.8	U	1.8	0.81	ug/m3			10/07/22 09:52	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			10/07/22 09:52	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.50	ug/m3			10/07/22 09:52	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			10/07/22 09:52	1
Chloroform	0.98	U	0.98	0.22	ug/m3			10/07/22 09:52	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/07/22 09:52	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/22 09:52	1
Cyclohexane	0.69	U	0.69	0.12	ug/m3			10/07/22 09:52	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			10/07/22 09:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	0.93	U	0.93	0.16	ug/m3			10/07/22 09:52	1
Benzene	0.64	U	0.64	0.24	ug/m3			10/07/22 09:52	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			10/07/22 09:52	1
n-Heptane	0.82	U	0.82	0.24	ug/m3			10/07/22 09:52	1
Trichloroethene	0.20	U	0.20	0.13	ug/m3			10/07/22 09:52	1
Methyl methacrylate	2.0	U	2.0	0.66	ug/m3			10/07/22 09:52	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			10/07/22 09:52	1
1,4-Dioxane	18	U	18	6.1	ug/m3			10/07/22 09:52	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			10/07/22 09:52	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			10/07/22 09:52	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			10/07/22 09:52	1
Toluene	0.75	U	0.75	0.35	ug/m3			10/07/22 09:52	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			10/07/22 09:52	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			10/07/22 09:52	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			10/07/22 09:52	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			10/07/22 09:52	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			10/07/22 09:52	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			10/07/22 09:52	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			10/07/22 09:52	1
Ethylbenzene	0.87	U	0.87	0.43	ug/m3			10/07/22 09:52	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			10/07/22 09:52	1
o-Xylene	0.87	U	0.87	0.41	ug/m3			10/07/22 09:52	1
Styrene	0.85	U	0.85	0.14	ug/m3			10/07/22 09:52	1
Bromoform	2.1	U	2.1	0.60	ug/m3			10/07/22 09:52	1
Cumene	0.98	U	0.98	0.18	ug/m3			10/07/22 09:52	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/22 09:52	1
n-Propylbenzene	0.98	U	0.98	0.23	ug/m3			10/07/22 09:52	1
4-Ethyltoluene	0.98	U	0.98	0.25	ug/m3			10/07/22 09:52	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			10/07/22 09:52	1
2-Chlorotoluene	1.0	U	1.0	0.25	ug/m3			10/07/22 09:52	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/07/22 09:52	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			10/07/22 09:52	1
sec-Butylbenzene	1.1	U	1.1	0.21	ug/m3			10/07/22 09:52	1
4-Isopropyltoluene	1.1	U	1.1	0.21	ug/m3			10/07/22 09:52	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			10/07/22 09:52	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			10/07/22 09:52	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			10/07/22 09:52	1
n-Butylbenzene	1.1	U	1.1	0.30	ug/m3			10/07/22 09:52	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			10/07/22 09:52	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/07/22 09:52	1
Hexachlorobutadiene	2.1	U	2.1	0.33	ug/m3			10/07/22 09:52	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			10/07/22 09:52	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/07/22 09:52	1
Chlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			10/07/22 09:52	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 09:52	1
Chloromethane	0.50	U	0.50	0.12	ppb v/v			10/07/22 09:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butane	0.50	U	0.50	0.19	ppb v/v			10/07/22 09:52	1
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			10/07/22 09:52	1
1,3-Butadiene	0.20	U	0.20	0.038	ppb v/v			10/07/22 09:52	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 09:52	1
Chloroethane	0.50	U	0.50	0.25	ppb v/v			10/07/22 09:52	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.085	ppb v/v			10/07/22 09:52	1
Trichlorofluoromethane	0.20	U	0.20	0.052	ppb v/v			10/07/22 09:52	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.055	ppb v/v			10/07/22 09:52	1
1,1-Dichloroethene	0.050	U	0.050	0.029	ppb v/v			10/07/22 09:52	1
Acetone	5.0	U	5.0	2.0	ppb v/v			10/07/22 09:52	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			10/07/22 09:52	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			10/07/22 09:52	1
3-Chloropropene	0.50	U	0.50	0.11	ppb v/v			10/07/22 09:52	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1
tert-Butyl alcohol	5.0	U	5.0	1.2	ppb v/v			10/07/22 09:52	1
Methyl tert-butyl ether	0.20	U	0.20	0.080	ppb v/v			10/07/22 09:52	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			10/07/22 09:52	1
n-Hexane	0.50	U	0.50	0.23	ppb v/v			10/07/22 09:52	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			10/07/22 09:52	1
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			10/07/22 09:52	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			10/07/22 09:52	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/07/22 09:52	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/22 09:52	1
Cyclohexane	0.20	U	0.20	0.035	ppb v/v			10/07/22 09:52	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			10/07/22 09:52	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.035	ppb v/v			10/07/22 09:52	1
Benzene	0.20	U	0.20	0.074	ppb v/v			10/07/22 09:52	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			10/07/22 09:52	1
n-Heptane	0.20	U	0.20	0.059	ppb v/v			10/07/22 09:52	1
Trichloroethene	0.037	U	0.037	0.024	ppb v/v			10/07/22 09:52	1
Methyl methacrylate	0.50	U	0.50	0.16	ppb v/v			10/07/22 09:52	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			10/07/22 09:52	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			10/07/22 09:52	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			10/07/22 09:52	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			10/07/22 09:52	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			10/07/22 09:52	1
Toluene	0.20	U	0.20	0.093	ppb v/v			10/07/22 09:52	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			10/07/22 09:52	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			10/07/22 09:52	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			10/07/22 09:52	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			10/07/22 09:52	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			10/07/22 09:52	1
1,2-Dibromoethane	0.20	U	0.20	0.046	ppb v/v			10/07/22 09:52	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			10/07/22 09:52	1
Ethylbenzene	0.20	U	0.20	0.10	ppb v/v			10/07/22 09:52	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1
o-Xylene	0.20	U	0.20	0.094	ppb v/v			10/07/22 09:52	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-184402/4
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.20	U	0.20	0.032	ppb v/v			10/07/22 09:52	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			10/07/22 09:52	1
Cumene	0.20	U	0.20	0.037	ppb v/v			10/07/22 09:52	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			10/07/22 09:52	1
n-Propylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/22 09:52	1
4-Ethyltoluene	0.20	U	0.20	0.051	ppb v/v			10/07/22 09:52	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/22 09:52	1
2-Chlorotoluene	0.20	U	0.20	0.048	ppb v/v			10/07/22 09:52	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/07/22 09:52	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/22 09:52	1
sec-Butylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/22 09:52	1
4-Isopropyltoluene	0.20	U	0.20	0.039	ppb v/v			10/07/22 09:52	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			10/07/22 09:52	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			10/07/22 09:52	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			10/07/22 09:52	1
n-Butylbenzene	0.20	U	0.20	0.055	ppb v/v			10/07/22 09:52	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			10/07/22 09:52	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/07/22 09:52	1
Hexachlorobutadiene	0.20	U	0.20	0.031	ppb v/v			10/07/22 09:52	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			10/07/22 09:52	1

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	54.8		ug/m3		111	61 - 142
Chlorodifluoromethane	35.4	38.3		ug/m3		108	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	74.0		ug/m3		106	71 - 141
Chloromethane	20.6	21.9		ug/m3		106	56 - 141
n-Butane	23.8	23.8		ug/m3		100	53 - 151
Vinyl chloride	25.6	22.9		ug/m3		89	61 - 135
1,3-Butadiene	22.1	18.8		ug/m3		85	58 - 139
Bromomethane	38.8	39.8		ug/m3		103	72 - 124
Chloroethane	26.4	27.3		ug/m3		103	68 - 130
Bromoethene(Vinyl Bromide)	43.7	45.2		ug/m3		103	75 - 125
Trichlorofluoromethane	56.2	58.3		ug/m3		104	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	79.1		ug/m3		103	70 - 121
1,1-Dichloroethene	39.6	36.9		ug/m3		93	68 - 120
Acetone	23.7	26.1		ug/m3		110	54 - 154
Isopropyl alcohol	24.6	25.6		ug/m3		104	53 - 142
Carbon disulfide	31.1	32.5		ug/m3		104	71 - 138
3-Chloropropene	31.3	31.3		ug/m3		100	50 - 150
Methylene Chloride	34.7	36.1		ug/m3		104	59 - 137
tert-Butyl alcohol	30.3	32.1		ug/m3		106	66 - 132
Methyl tert-butyl ether	36.0	37.7		ug/m3		105	70 - 127
trans-1,2-Dichloroethene	39.6	38.6		ug/m3		97	69 - 137
n-Hexane	35.2	35.1		ug/m3		100	63 - 138
1,1-Dichloroethane	40.5	38.5		ug/m3		95	66 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Ethyl Ketone (2-Butanone)	29.5	30.9		ug/m3		105	72 - 124
cis-1,2-Dichloroethene	39.6	37.6		ug/m3		95	72 - 121
Chloroform	48.8	49.9		ug/m3		102	73 - 124
Tetrahydrofuran	29.5	31.1		ug/m3		105	60 - 149
1,1,1-Trichloroethane	54.6	56.2		ug/m3		103	72 - 127
Cyclohexane	34.4	34.6		ug/m3		101	76 - 124
Carbon tetrachloride	62.9	63.1		ug/m3		100	71 - 133
2,2,4-Trimethylpentane	46.7	46.7		ug/m3		100	68 - 131
Benzene	31.9	31.5		ug/m3		99	73 - 119
1,2-Dichloroethane	40.5	41.0		ug/m3		101	68 - 135
n-Heptane	41.0	40.5		ug/m3		99	60 - 142
Trichloroethene	53.7	52.0		ug/m3		97	73 - 122
Methyl methacrylate	40.9	42.9		ug/m3		105	73 - 129
1,2-Dichloropropane	46.2	46.5		ug/m3		101	69 - 128
1,4-Dioxane	36.0	35.2		ug/m3		98	66 - 129
Bromodichloromethane	67.0	70.9		ug/m3		106	75 - 127
cis-1,3-Dichloropropene	45.4	47.9		ug/m3		106	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	43.6		ug/m3		106	58 - 144
Toluene	37.7	38.2		ug/m3		101	75 - 122
trans-1,3-Dichloropropene	45.4	49.6		ug/m3		109	74 - 128
1,1,2-Trichloroethane	54.6	55.7		ug/m3		102	75 - 126
Tetrachloroethene	67.8	66.3		ug/m3		98	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	41.1		ug/m3		100	57 - 143
Dibromochloromethane	85.2	94.3		ug/m3		111	73 - 125
1,2-Dibromoethane	76.8	80.4		ug/m3		105	78 - 122
Chlorobenzene	46.0	47.5		ug/m3		103	76 - 119
Ethylbenzene	43.4	44.9		ug/m3		103	74 - 122
m,p-Xylene	86.8	90.4		ug/m3		104	76 - 121
o-Xylene	43.4	45.2		ug/m3		104	73 - 123
Styrene	42.6	47.4		ug/m3		111	74 - 125
Bromoform	103	121		ug/m3		117	53 - 149
Cumene	49.1	51.5		ug/m3		105	73 - 123
1,1,2,2-Tetrachloroethane	68.6	70.5		ug/m3		103	74 - 126
n-Propylbenzene	49.1	51.8		ug/m3		105	73 - 127
4-Ethyltoluene	49.2	52.2		ug/m3		106	75 - 129
1,3,5-Trimethylbenzene	49.2	51.4		ug/m3		105	72 - 126
2-Chlorotoluene	51.8	54.0		ug/m3		104	74 - 126
tert-Butylbenzene	54.9	57.6		ug/m3		105	71 - 125
1,2,4-Trimethylbenzene	49.2	51.8		ug/m3		105	71 - 129
sec-Butylbenzene	54.9	57.7		ug/m3		105	70 - 128
4-Isopropyltoluene	54.9	58.4		ug/m3		106	68 - 130
1,3-Dichlorobenzene	60.1	65.0		ug/m3		108	69 - 131
1,4-Dichlorobenzene	60.1	65.4		ug/m3		109	67 - 132
Benzyl chloride	51.8	75.5	*+	ug/m3		146	60 - 136
n-Butylbenzene	54.9	58.4		ug/m3		106	65 - 137
1,2-Dichlorobenzene	60.1	63.3		ug/m3		105	68 - 129

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	74.2	74.4		ug/m3		100	50 - 150
Hexachlorobutadiene	107	114		ug/m3		107	58 - 130
Naphthalene	52.4	53.3		ug/m3		102	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	11.1		ppb v/v		111	61 - 142
Chlorodifluoromethane	10	10.8		ppb v/v		108	60 - 147
1,2-Dichlorotetrafluoroethane	10	10.6		ppb v/v		106	71 - 141
Chloromethane	10	10.6		ppb v/v		106	56 - 141
n-Butane	10	10.0		ppb v/v		100	53 - 151
Vinyl chloride	10	8.94		ppb v/v		89	61 - 135
1,3-Butadiene	10	8.51		ppb v/v		85	58 - 139
Bromomethane	10	10.2		ppb v/v		103	72 - 124
Chloroethane	10	10.3		ppb v/v		103	68 - 130
Bromoethene(Vinyl Bromide)	10	10.3		ppb v/v		103	75 - 125
Trichlorofluoromethane	10	10.4		ppb v/v		104	70 - 129
1,1,2-Trichlorotrifluoroethane	10	10.3		ppb v/v		103	70 - 121
1,1-Dichloroethene	10	9.31		ppb v/v		93	68 - 120
Acetone	10	11.0		ppb v/v		110	54 - 154
Isopropyl alcohol	10	10.4		ppb v/v		104	53 - 142
Carbon disulfide	10	10.4		ppb v/v		104	71 - 138
3-Chloropropene	10	10.0		ppb v/v		100	50 - 150
Methylene Chloride	10	10.4		ppb v/v		104	59 - 137
tert-Butyl alcohol	10	10.6		ppb v/v		106	66 - 132
Methyl tert-butyl ether	10	10.5		ppb v/v		105	70 - 127
trans-1,2-Dichloroethene	10	9.73		ppb v/v		97	69 - 137
n-Hexane	10	9.95		ppb v/v		100	63 - 138
1,1-Dichloroethane	10	9.52		ppb v/v		95	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	10.5		ppb v/v		105	72 - 124
cis-1,2-Dichloroethene	10	9.48		ppb v/v		95	72 - 121
Chloroform	10	10.2		ppb v/v		102	73 - 124
Tetrahydrofuran	10	10.5		ppb v/v		105	60 - 149
1,1,1-Trichloroethane	10	10.3		ppb v/v		103	72 - 127
Cyclohexane	10	10.1		ppb v/v		101	76 - 124
Carbon tetrachloride	10	10.0		ppb v/v		100	71 - 133
2,2,4-Trimethylpentane	10	9.99		ppb v/v		100	68 - 131
Benzene	10	9.87		ppb v/v		99	73 - 119
1,2-Dichloroethane	10	10.1		ppb v/v		101	68 - 135
n-Heptane	10	9.87		ppb v/v		99	60 - 142
Trichloroethene	10	9.67		ppb v/v		97	73 - 122
Methyl methacrylate	10	10.5		ppb v/v		105	73 - 129
1,2-Dichloropropane	10	10.1		ppb v/v		101	69 - 128
1,4-Dioxane	10	9.77		ppb v/v		98	66 - 129
Bromodichloromethane	10	10.6		ppb v/v		106	75 - 127
cis-1,3-Dichloropropene	10	10.6		ppb v/v		106	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	10.6		ppb v/v		106	58 - 144
Toluene	10	10.1		ppb v/v		101	75 - 122

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-184402/3
Matrix: Air
Analysis Batch: 184402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	10	10.9		ppb v/v		109	74 - 128
1,1,2-Trichloroethane	10	10.2		ppb v/v		102	75 - 126
Tetrachloroethene	10	9.77		ppb v/v		98	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	10.0		ppb v/v		100	57 - 143
Dibromochloromethane	10	11.1		ppb v/v		111	73 - 125
1,2-Dibromoethane	10	10.5		ppb v/v		105	78 - 122
Chlorobenzene	10	10.3		ppb v/v		103	76 - 119
Ethylbenzene	10	10.3		ppb v/v		103	74 - 122
m,p-Xylene	20	20.8		ppb v/v		104	76 - 121
o-Xylene	10	10.4		ppb v/v		104	73 - 123
Styrene	10	11.1		ppb v/v		111	74 - 125
Bromoform	10	11.7		ppb v/v		117	53 - 149
Cumene	10	10.5		ppb v/v		105	73 - 123
1,1,2,2-Tetrachloroethane	10	10.3		ppb v/v		103	74 - 126
n-Propylbenzene	10	10.5		ppb v/v		105	73 - 127
4-Ethyltoluene	10	10.6		ppb v/v		106	75 - 129
1,3,5-Trimethylbenzene	10	10.5		ppb v/v		105	72 - 126
2-Chlorotoluene	10	10.4		ppb v/v		104	74 - 126
tert-Butylbenzene	10	10.5		ppb v/v		105	71 - 125
1,2,4-Trimethylbenzene	10	10.5		ppb v/v		105	71 - 129
sec-Butylbenzene	10	10.5		ppb v/v		105	70 - 128
4-Isopropyltoluene	10	10.6		ppb v/v		106	68 - 130
1,3-Dichlorobenzene	10	10.8		ppb v/v		108	69 - 131
1,4-Dichlorobenzene	10	10.9		ppb v/v		109	67 - 132
Benzyl chloride	10	14.6	*+	ppb v/v		146	60 - 136
n-Butylbenzene	10	10.6		ppb v/v		106	65 - 137
1,2-Dichlorobenzene	10	10.5		ppb v/v		105	68 - 129
1,2,4-Trichlorobenzene	10	10.0		ppb v/v		100	50 - 150
Hexachlorobutadiene	10	10.7		ppb v/v		107	58 - 130
Naphthalene	10	10.2		ppb v/v		102	50 - 150

QC Association Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Air - GC/MS VOA

Analysis Batch: 184353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-65184-1	SV-02_20221003	Total/NA	Air	TO-15	
200-65184-1 - DL	SV-02_20221003	Total/NA	Air	TO-15	
200-65184-2 - DL	SV-04_20221003	Total/NA	Air	TO-15	
200-65184-2	SV-04_20221003	Total/NA	Air	TO-15	
MB 200-184353/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-184353/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 184402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-65197-1	SV-01_20221004	Total/NA	Air	TO-15	
200-65197-1 - DL	SV-01_20221004	Total/NA	Air	TO-15	
200-65197-2	SV-03_20221004	Total/NA	Air	TO-15	
200-65197-3	SV-05_20221004	Total/NA	Air	TO-15	
200-65197-3 - DL	SV-05_20221004	Total/NA	Air	TO-15	
MB 200-184402/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-184402/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: AKRF Inc
Job ID: 200-65184-1
Project/Site: Ikos Senior Living

Client Sample ID: SV-02_20221003
Lab Sample ID: 200-65184-1
Date Collected: 10/03/22 13:10
Matrix: Air
Date Received: 10/04/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184353	A1B	EET BUR	10/06/22 11:50
Total/NA	Analysis	TO-15	DL	2	184353	A1B	EET BUR	10/06/22 12:43

Client Sample ID: SV-04_20221003
Lab Sample ID: 200-65184-2
Date Collected: 10/03/22 15:30
Matrix: Air
Date Received: 10/04/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	10	184353	A1B	EET BUR	10/06/22 14:29
Total/NA	Analysis	TO-15		1	184353	A1B	EET BUR	10/07/22 01:07

Client Sample ID: SV-01_20221004
Lab Sample ID: 200-65197-1
Date Collected: 10/04/22 15:30
Matrix: Air
Date Received: 10/05/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184402	K1P	EET BUR	10/07/22 14:34
Total/NA	Analysis	TO-15	DL	6.14	184402	K1P	EET BUR	10/07/22 15:26

Client Sample ID: SV-03_20221004
Lab Sample ID: 200-65197-2
Date Collected: 10/04/22 11:00
Matrix: Air
Date Received: 10/05/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184402	K1P	EET BUR	10/07/22 16:19

Client Sample ID: SV-05_20221004
Lab Sample ID: 200-65197-3
Date Collected: 10/04/22 14:00
Matrix: Air
Date Received: 10/05/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	184402	K1P	EET BUR	10/07/22 17:11
Total/NA	Analysis	TO-15	DL	2	184402	K1P	EET BUR	10/07/22 18:03

Laboratory References:
EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 200-65184-1
Project/Site: Ikos Senior Living

Laboratory: Eurofins Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	VT972	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,4-Dioxane
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
TO-15		Air	m,p-Xylene
TO-15		Air	n-Butane
TO-15		Air	n-Butylbenzene
TO-15		Air	n-Propylbenzene
TO-15		Air	sec-Butylbenzene
TO-15		Air	tert-Butylbenzene

Method Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 200-65184-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-65184-1	SV-02_20221003	Air	10/03/22 13:10	10/04/22 13:30	Air Canister (6-Liter) #6266
200-65184-2	SV-04_20221003	Air	10/03/22 15:30	10/04/22 13:30	Air Canister (6-Liter) #5058
200-65197-1	SV-01_20221004	Air	10/04/22 15:30	10/05/22 10:30	Air Canister (6-Liter) #5630
200-65197-2	SV-03_20221004	Air	10/04/22 11:00	10/05/22 10:30	Air Canister (6-Liter) #3642
200-65197-3	SV-05_20221004	Air	10/04/22 14:00	10/05/22 10:30	Air Canister (6-Liter) #6309

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-65184	10/05/22	14:58	29.7	21	G34	CC

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		No	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		No	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-65184-A-1	6266	-2.6	N	11564	91/80	Y	9196-52552	
200-65184-A-2	5058	-4.7	N	7051	91/79	Y	9196-52552	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-65197	10/06/22	9:13	29.6	21	G34	ZK

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		No	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		No	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-65197-A-1	5630	-12.2	Y	10655	91/79	Y	4570-52552	
200-65197-A-2	3642	-3.0	N	10652	91/79	Y	9196-52552	
200-65197-A-3	6309	-7.1	N	3979	92/74	Y	9196-52552	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

NYC 222

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802 660 1990 fax 802.660.1919

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** Asya Bychkova	**Samples Collected By:** T. Giordano	COC No
Company Name AKRF, Inc.	**Phone:**		1 of 1 COCs
Address 440 Park Avenue South, 7th Fl	**Email:** abychkova@akrf.com		TALS Project #
City/State/Zip New York, NY 10016			**For Lab Use Only:**
Phone 646 388 9553	**Site Contact:** Tom Giordano		Walk-in Client:
FAX	**Tel/Fax** 914 602 6956		Lab Sampling
Project Name IH05	**Analysis Turnaround Time**		
Site/Location Astoria, Queens, NY	Standard (Specific): ✓		Job / SDG No
P O # 210124	Rush (Specifiy)		(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14A (Standard) / Low Level	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SV-02_20221003	10/3/22	1200	10/3/22	1310	-30	-5	11564	6266	X														
SV-04_20221003	↓	1330	↓	1530	-30	-7	7051	5058	X														

200-65184 COC

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Category A / Equis Edd

Samples Shipped by: Tom Giordano AKRF	**Date / Time:** 10/3/2022	**Samples Received by:**	
Samples Relinquished by:	**Date / Time:** 10/3/22 17:00	**Received by:** Caitlin Cuni ETA-BUR	10/4/22 1330
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Chain of Custody Record

611420 eurofins | Environment Testing America

Address: NYC 20[illegible]

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Anya Rychlenko	Site Contact: Tom Gordon	Date: 10/4/2022	COC No:
Company Name: AKRF, Inc.	Tel/Email: arychlenko@akrf.com	Lab Contact: M. Hayes	Carrier:	3 of 3 COCs
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time			Sampler:
City/State/Zip: New York, NY 10016	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 646-388-9433	TAT if different from Below Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: IHOS	☑ 1 week			
Site: Astoria, Queens, NY	☐ 2 days			Job / SDG No.:
P O # 210174	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TO-15, Standard	Sample Specific Notes:
SV-01_20221004	10/4/2022	1350/1530	G	A	1			X	-14 in Hg Can 5638 Controller 10655
SV-03_20221004	↓	0900/1100	—	A	1			X	-7 in Hg Can 3643 Controller 10652
SV-05_20221004	↓	1235/1410	—	A	1			X	-8 in Hg Can 6307 Controller 3979

200-65197 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:
Category A Deliverables - EQuIS EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Gordon	AKRF, Inc	10/4/22 1600		T.A.	10/4/22 16:60
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T.A.	10/4/22		ETA Buri	10/5/2022 1030
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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10/11/2022

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-65184-1

Login Number: 65184
List Number: 1
Creator: Cunningham, Caroline R

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-65184-1

Login Number: 65197
List Number: 1
Creator: Khudaier, Zahraa

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pre-Shipment Clean Canist ertification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	22	9/21/2022	1200	23		TPB	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	34002081	1.04	1.04	0	29.6	G26	9/22/22	1105	DTB	22	G26	9/23/22	1514		22.0
2	4383		1.04	0		G26					G26				
3	2892		1.04	0		G26					G26				
4	3217		1.04	0		G26					G26				
5	4347		1.17	1.13		G26					G26				
6	6309		1.04	0		G26					G26				
7	6266		1.04	0		G26					G26				
8	3233		1.04	0		G26					G26				
9	3642		1.04	0		G26					G26				
10	5058		1.04	0		G26					G26				
11	5434		1.04	0		G26					G26				
12	9196	1.04	1.05	0.01	29.9	G26	9/23/22	1555		22.0	G26	10/3/22	1444	TDB	22

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL 9/23/22

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
9196	9/23/22	52552	VTP		xxxx				9/23/22	DTB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Pre-Shipment Clean Canist ertification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	10	25	9/21/2022	1200	23		TPB	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5717	.04	.04	0	29.6	G26	9/22/22	1400	DB	22	G26	9/23/22	1420	—	22.0
2	9239		.10	.06		G26					G26				
3	5629		.04	0		G26					G26				
4	5630		.04	0		G26					G26				
5	9216		.04	0		G26					G26				
6	9228		.15	.11		G26					G26				
7	5983		.17	.13		G26					G26				
8	9259		.04	0		G26					G26				
9	5624		.28	.24		G26					G26				
10	5638		.04	.00		G26					G26				
11	4789		.04	0		G26					G26				
12	4570	.04	.04	0	29.9	G26	9/23/22	1500	—	22.0	G26	10/3/22	1445	DB	22

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister PM Authorization Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
4570	9/23/22	52552	VTP		xxxx				9/23/22	DB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

TestAmerica Burlington

4570
200-1657090
200-65008-A-12
Summa Canister 6L

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65006-1

SDG No.:

Client Sample ID: 9196 Lab Sample ID: 200-65006-12

Matrix: Air Lab File ID: 52552-006.d

Analysis Method: TO-15 Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/23/2022 14:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 183859 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65006-1

SDG No.:

Client Sample ID: 9196 Lab Sample ID: 200-65006-12

Matrix: Air Lab File ID: 52552-006.d

Analysis Method: TO-15 Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/23/2022 14:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 183859 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.0099	J	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d
Lims ID: 200-65006-A-12
Client ID: 9196
Sample Type: Client
Inject. Date: 23-Sep-2022 14:02:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0052552-006
Misc. Info.: 65006-12
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 25-Sep-2022 16:46:34 Calib Date: 09-Jul-2022 01:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220708-51593.b\51593-013.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: bunmaa Date: 25-Sep-2022 16:46:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.067				ND	7
2 Dichlorodifluoromethane	85		4.163				ND	
3 Chlorodifluoromethane	51		4.206				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.511				ND	
5 Chloromethane	50		4.624				ND	7
6 Vinyl chloride	62		4.923				ND	
7 Butane	43		4.923				ND	7
8 Butadiene	54		5.035				ND	
9 Bromomethane	94		5.742				ND	
10 Chloroethane	64		6.004				ND	
13 Vinyl bromide	106		6.421				ND	
14 Trichlorofluoromethane	101		6.587				ND	
16 Ethanol	45		6.956				ND	7
20 1,1-Dichloroethene	96		7.635				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.678				ND	
22 Acetone	43		7.721				ND	7
23 Isopropyl alcohol	45		8.015				ND	7
24 Carbon disulfide	76	8.037	8.047	-0.005	69	2486	0.0324	
26 3-Chloro-1-propene	41		8.331				ND	7
27 Methylene Chloride	49	8.572	8.572	0.011	42	1756	0.0534	7M
28 2-Methyl-2-propanol	59		8.786				ND	
30 trans-1,2-Dichloroethene	61		9.058				ND	7
31 Methyl tert-butyl ether	73		9.074				ND	7
32 Hexane	57	9.556	9.556	-0.005	59	376	0.0102	7M
33 1,1-Dichloroethane	63		9.813				ND	
34 Vinyl acetate	43		9.829				ND	7
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
36 2-Butanone (MEK)	72		10.776				ND	
37 cis-1,2-Dichloroethene	96		10.797				ND	
38 Ethyl acetate	88		10.867				ND	
* 39 Chlorobromomethane	128	11.204	11.209	-0.005	73	224985	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.257				ND	7
	41 Chloroform	83		11.386				ND	
	42 1,1,1-Trichloroethane	97		11.685				ND	
	43 Cyclohexane	84		11.830				ND	7
	44 Carbon tetrachloride	117		11.969				ND	
	45 Benzene	78		12.311				ND	7
	46 1,2-Dichloroethane	62		12.386				ND	
	47 Isooctane	57		12.536				ND	
	48 n-Heptane	43		12.846				ND	7
*	49 1,4-Difluorobenzene	114	13.049	13.049	0.000	95	1166926	10.0	
	51 Trichloroethene	95	13.483	13.483	0.006	89	2733	0.0496	M
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.028				ND	
	55 1,4-Dioxane	88		14.076				ND	
	57 Dibromomethane	174		14.087				ND	7
	58 Dichlorobromomethane	83		14.397				ND	
	59 cis-1,3-Dichloropropene	75		15.200				ND	7
	61 4-Methyl-2-pentanone (MIBK)	43		15.467				ND	7
	62 Toluene	92		15.842				ND	7
	66 trans-1,3-Dichloropropene	75		16.259				ND	
	67 1,1,2-Trichloroethane	83		16.634				ND	
	68 Tetrachloroethene	166		16.832				ND	
	69 2-Hexanone	43		17.051				ND	7
	70 Chlorodibromomethane	129		17.367				ND	
	71 Ethylene Dibromide	107		17.602				ND	
*	73 Chlorobenzene-d5	117	18.511	18.517	-0.006	91	942938	10.0	
	74 Chlorobenzene	112		18.576				ND	
	75 Ethylbenzene	91		18.773				ND	7
	76 m-Xylene & p-Xylene	106		19.036				ND	
	78 o-Xylene	106		19.806				ND	
	79 Styrene	104		19.843				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.196				ND	
	82 Isopropylbenzene	105		20.534				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.063				ND	7
	85 N-Propylbenzene	91		21.272				ND	MU
	86 2-Chlorotoluene	91		21.416				ND	7
	87 4-Ethyltoluene	105		21.475				ND	7
	88 1,3,5-Trimethylbenzene	105		21.571				ND	7
	91 tert-Butylbenzene	119		22.064				ND	
	92 1,2,4-Trimethylbenzene	105		22.149				ND	7
	93 sec-Butylbenzene	105		22.390				ND	7
	94 1,3-Dichlorobenzene	146		22.561				ND	7
	95 4-Isopropyltoluene	119		22.609				ND	7
	96 1,4-Dichlorobenzene	146		22.706				ND	MU
	97 Benzyl chloride	91		22.855				ND	7
	98 n-Butylbenzene	91		23.166				ND	7
	99 1,2-Dichlorobenzene	146	23.192	23.192	0.000	10	1004	0.009401	
	102 1,2,4-Trichlorobenzene	180		25.573				ND	7
	103 Hexachlorobutadiene	225		25.814				ND	
	104 Naphthalene	128		26.033				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

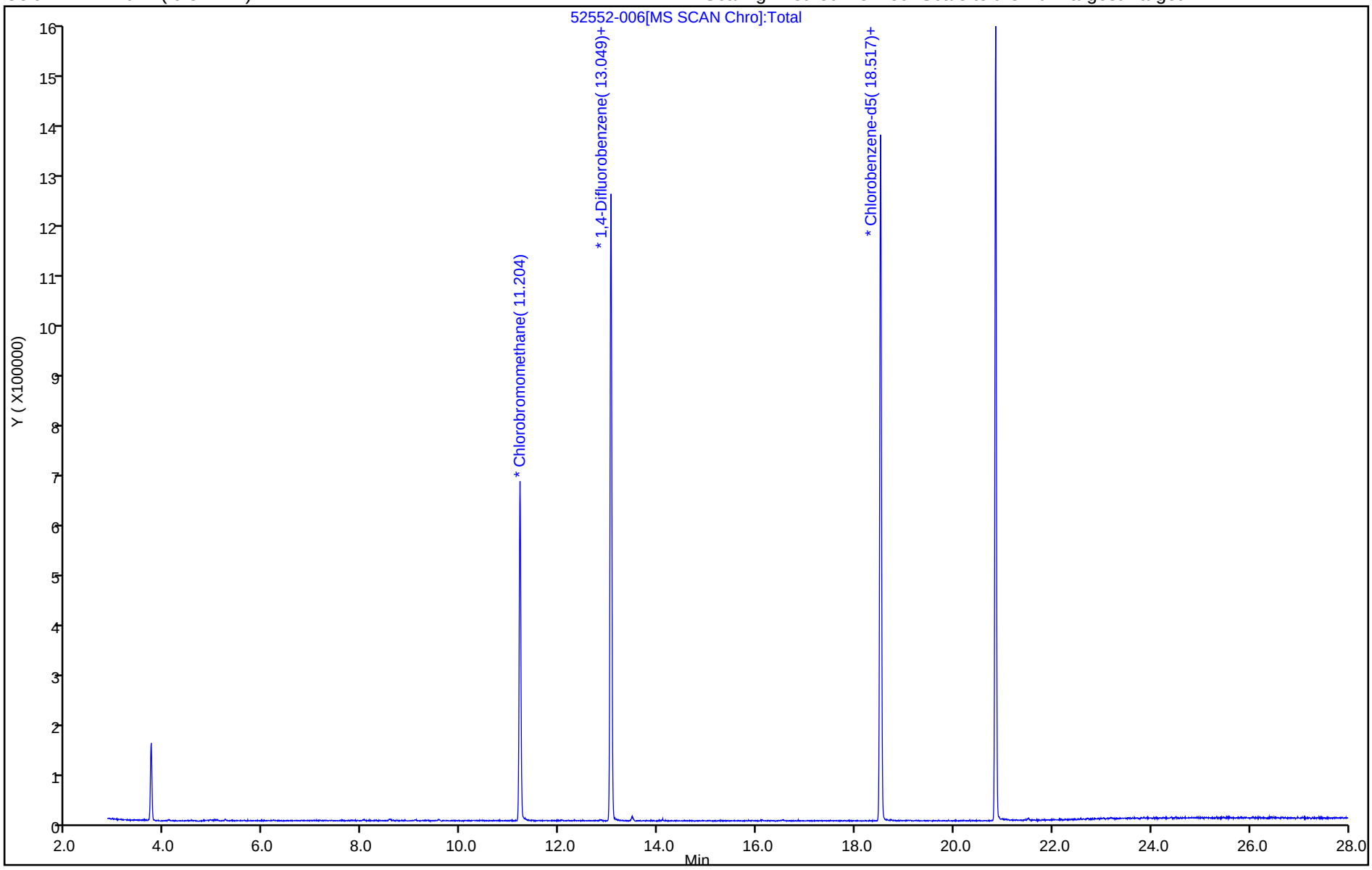
Report Date: 25-Sep-2022 16:46:35 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d

Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12	Worklist Smp#:	6
Client ID:	9196				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	6
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

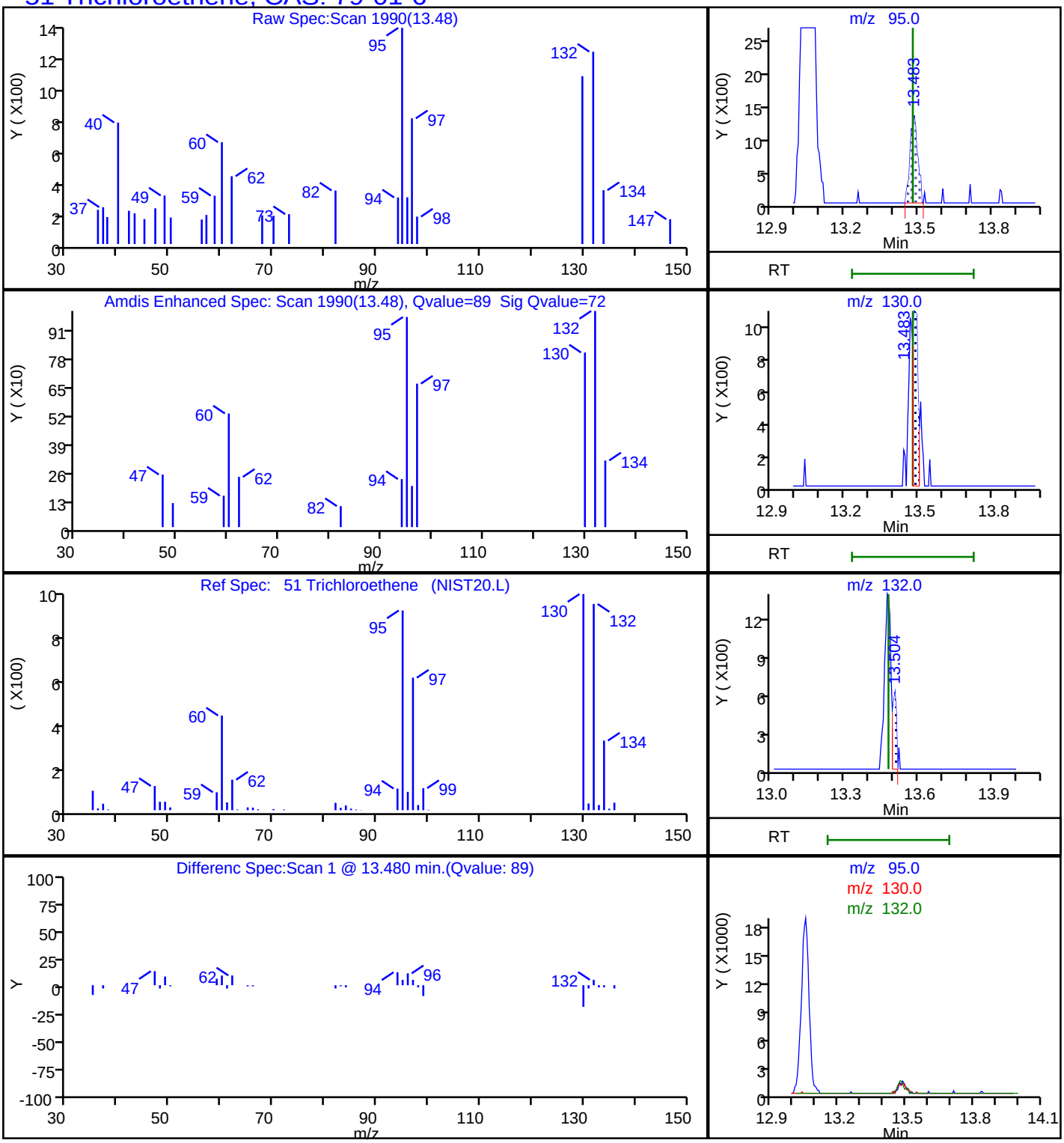


Report Date: 25-Sep-2022 16:46:35 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d				
Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

51 Trichloroethene, CAS: 79-01-6



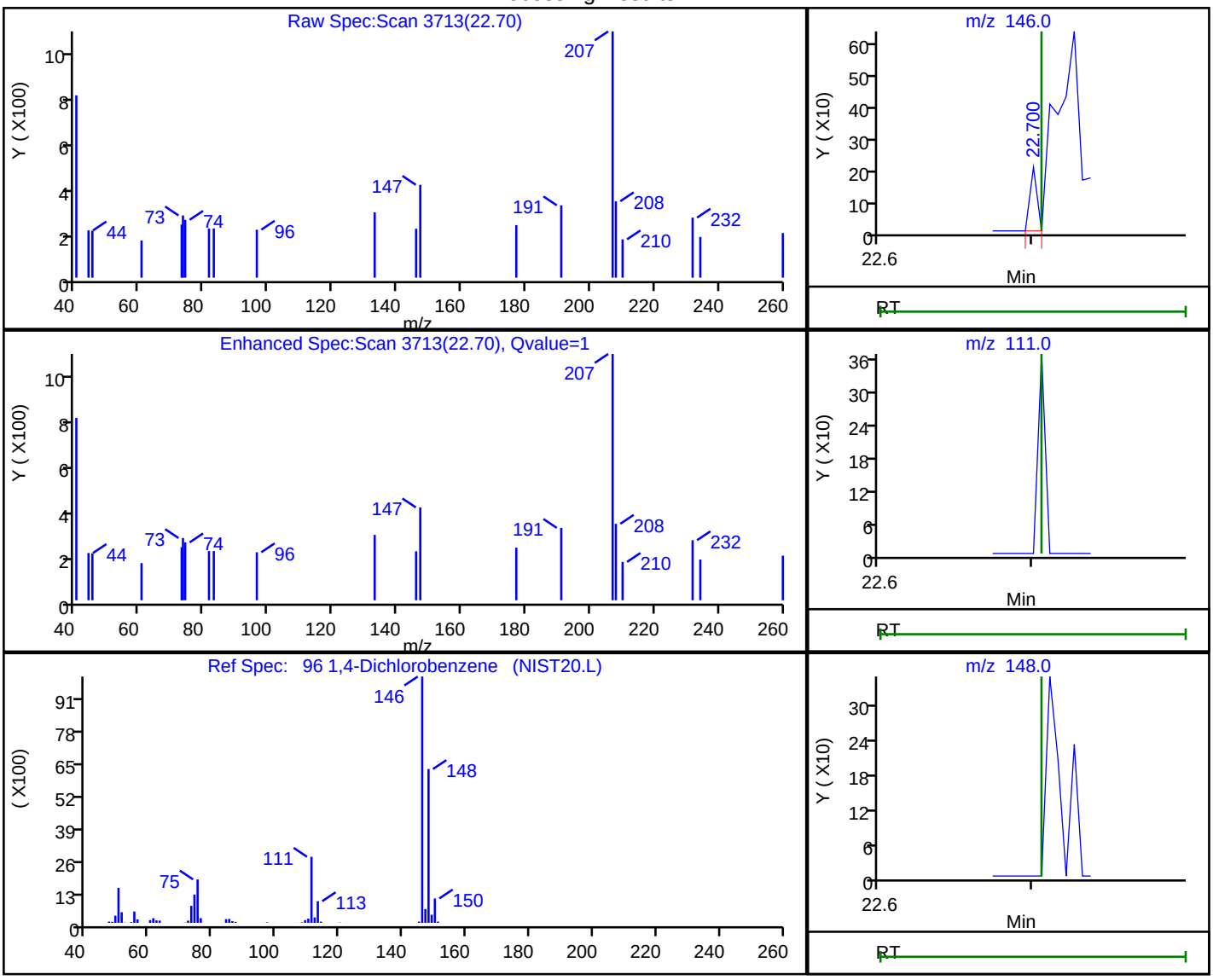
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d				
Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
22.70	146.00	65	0.000660
22.71	111.00	0	
22.71	148.00	0	

Reviewer: bunmaa, 25-Sep-2022 16:46:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Burlington

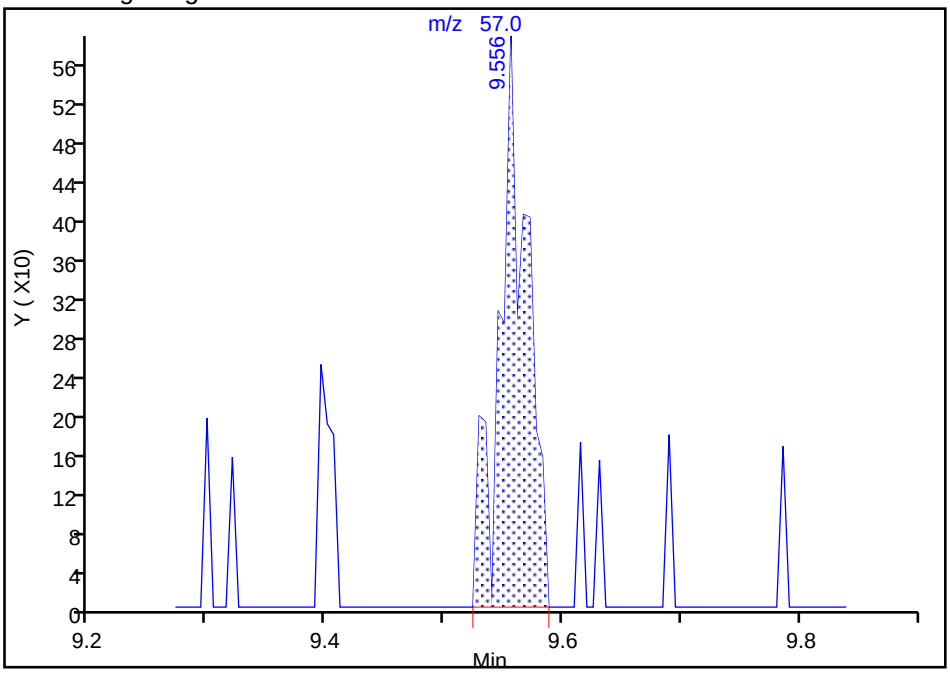
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Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

32 Hexane, CAS: 110-54-3

Signal: 1

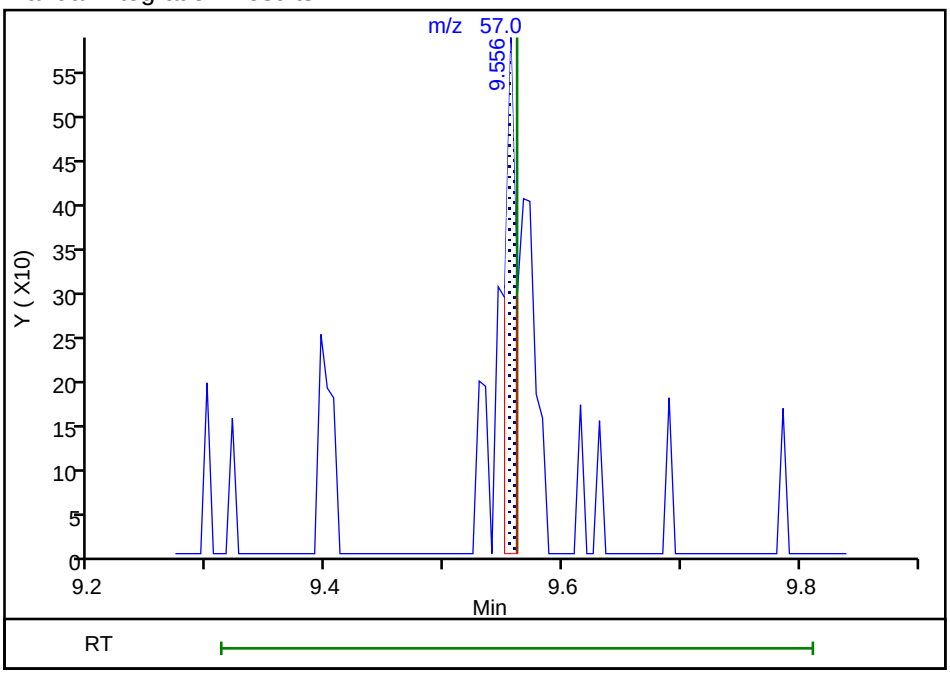
Processing Integration Results

RT: 9.56
Area: 962
Amount: 0.026151
Amount Units: ppb v/v



Manual Integration Results

RT: 9.56
Area: 376
Amount: 0.010221
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:44:26

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

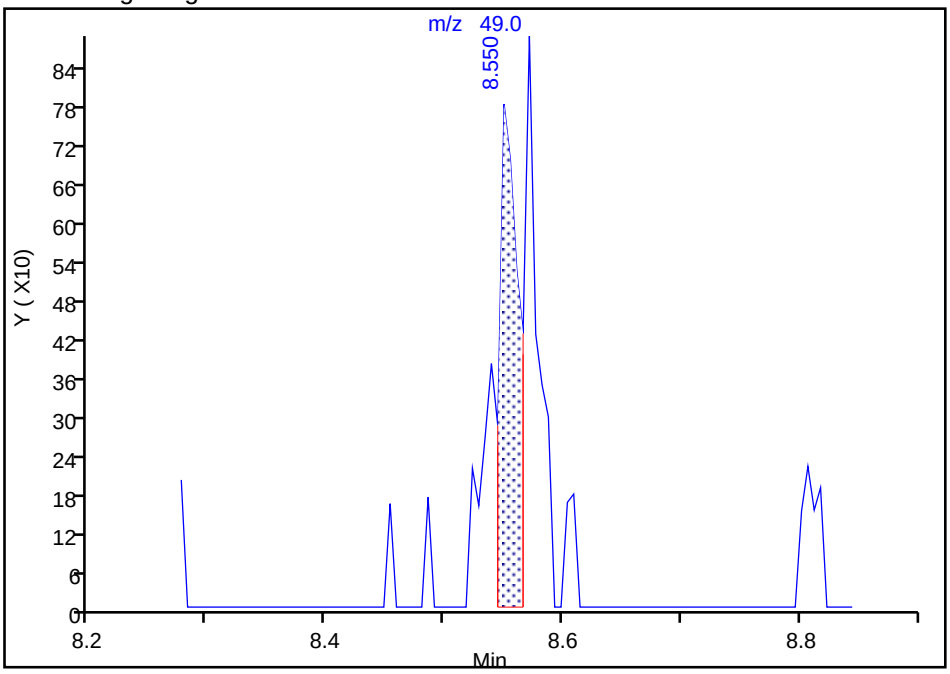
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Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

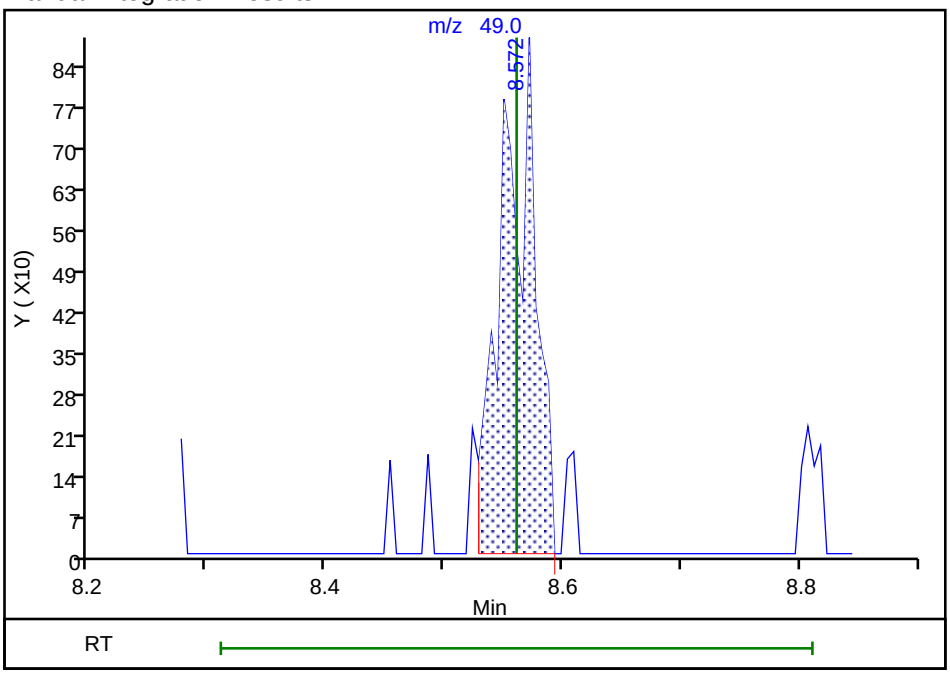
Processing Integration Results

RT: 8.55
Area: 871
Amount: 0.026471
Amount Units: ppb v/v



Manual Integration Results

RT: 8.57
Area: 1756
Amount: 0.053367
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:43:46

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

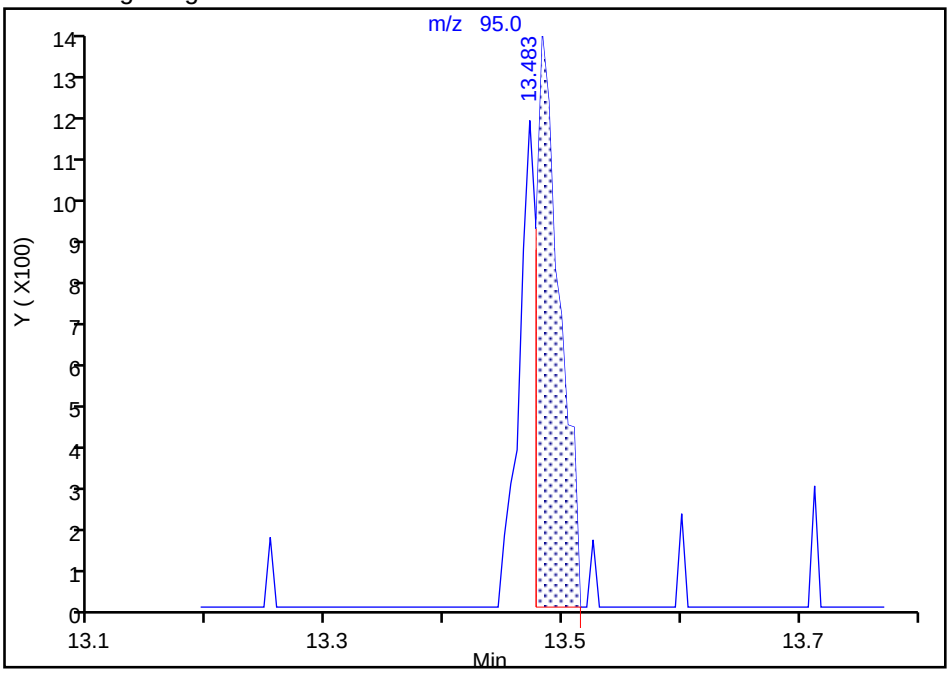
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-006.d				
Injection Date:	23-Sep-2022 14:02:30	Instrument ID:	CHW.i		
Lims ID:	200-65006-A-12	Lab Sample ID:	200-65006-12		
Client ID:	9196				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

51 Trichloroethene, CAS: 79-01-6

Signal: 1

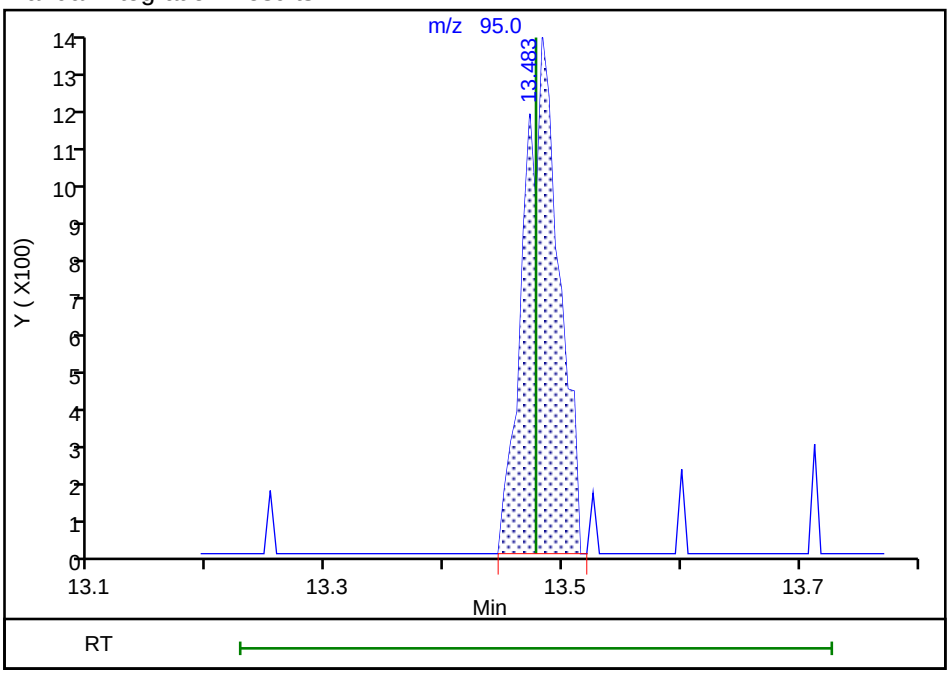
Processing Integration Results

RT: 13.48
Area: 1835
Amount: 0.033331
Amount Units: ppb v/v



Manual Integration Results

RT: 13.48
Area: 2733
Amount: 0.049642
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:45:00

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-65008-1

SDG No.:

Client Sample ID: 4570 | Lab Sample ID: 200-65008-12

Matrix: Air | Lab File ID: 52552-005.d

Analysis Method: TO-15 | Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/23/2022 12:56

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 183859 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65008-1

SDG No.:

Client Sample ID: 4570 Lab Sample ID: 200-65008-12

Matrix: Air Lab File ID: 52552-005.d

Analysis Method: TO-15 Date Collected: 09/21/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/23/2022 12:56

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 183859 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-005.d
Lims ID: 200-65008-A-12
Client ID: 4570
Sample Type: Client
Inject. Date: 23-Sep-2022 12:56:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0052552-005
Misc. Info.: 65008-12
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 25-Sep-2022 16:42:33 Calib Date: 09-Jul-2022 01:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220708-51593.b\51593-013.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: bunmaa Date: 25-Sep-2022 16:42:33

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.067				ND	7
	2 Dichlorodifluoromethane	85		4.163				ND	
	3 Chlorodifluoromethane	51		4.206				ND	7
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.511				ND	
	5 Chloromethane	50		4.624				ND	7
	6 Vinyl chloride	62		4.923				ND	
	7 Butane	43		4.923				ND	7
	8 Butadiene	54		5.035				ND	7
	9 Bromomethane	94		5.742				ND	
	10 Chloroethane	64		6.004				ND	7
	13 Vinyl bromide	106		6.421				ND	
	14 Trichlorofluoromethane	101		6.587				ND	
	16 Ethanol	45		6.956				ND	7
	20 1,1-Dichloroethene	96		7.635				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.678				ND	
	22 Acetone	43		7.721				ND	7
	23 Isopropyl alcohol	45		8.015				ND	
	24 Carbon disulfide	76	8.047	8.047	0.005	69	2838	0.0354	M
	26 3-Chloro-1-propene	41		8.331				ND	7
	27 Methylene Chloride	49	8.561	8.561	0.000	30	1891	0.0550	7M
	28 2-Methyl-2-propanol	59		8.786				ND	
	30 trans-1,2-Dichloroethene	61		9.058				ND	7
	31 Methyl tert-butyl ether	73		9.074				ND	7
	32 Hexane	57		9.561				ND	
	33 1,1-Dichloroethane	63		9.813				ND	7
	34 Vinyl acetate	43		9.829				ND	7
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.776				ND	7
	37 cis-1,2-Dichloroethene	96		10.797				ND	7
	38 Ethyl acetate	88		10.867				ND	
*	39 Chlorobromomethane	128	11.204	11.209	-0.005	75	235238	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.257				ND	7
	41 Chloroform	83		11.386				ND	
	42 1,1,1-Trichloroethane	97		11.685				ND	
	43 Cyclohexane	84		11.830				ND	
	44 Carbon tetrachloride	117		11.969				ND	
	45 Benzene	78		12.311				ND	7
	46 1,2-Dichloroethane	62		12.386				ND	
	47 Isooctane	57		12.536				ND	
	48 n-Heptane	43		12.846				ND	7
*	49 1,4-Difluorobenzene	114	13.049	13.049	0.000	95	1196286	10.0	
	51 Trichloroethene	95		13.477				ND	
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.028				ND	
	55 1,4-Dioxane	88		14.076				ND	7
	57 Dibromomethane	174	14.098	14.098	0.011	32	549	0.0101	7M
	58 Dichlorobromomethane	83		14.397				ND	
	59 cis-1,3-Dichloropropene	75		15.200				ND	7
	61 4-Methyl-2-pentanone (MIBK)	43		15.467				ND	7
	62 Toluene	92		15.842				ND	7
	66 trans-1,3-Dichloropropene	75		16.259				ND	7
	67 1,1,2-Trichloroethane	83		16.634				ND	
	68 Tetrachloroethene	166		16.832				ND	
	69 2-Hexanone	43		17.051				ND	7
	70 Chlorodibromomethane	129		17.367				ND	
	71 Ethylene Dibromide	107		17.602				ND	7
*	73 Chlorobenzene-d5	117	18.517	18.517	0.000	91	964591	10.0	
	74 Chlorobenzene	112		18.576				ND	7
	75 Ethylbenzene	91		18.773				ND	7
	76 m-Xylene & p-Xylene	106		19.036				ND	7
	78 o-Xylene	106		19.806				ND	
	79 Styrene	104		19.843				ND	7
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.196				ND	7
	82 Isopropylbenzene	105		20.534				ND	7
	83 1,1,2,2-Tetrachloroethane	83		21.063				ND	7
	85 N-Propylbenzene	91		21.272				ND	7
	86 2-Chlorotoluene	91		21.416				ND	7
	87 4-Ethyltoluene	105		21.475				ND	7
	88 1,3,5-Trimethylbenzene	105		21.571				ND	7
	91 tert-Butylbenzene	119		22.064				ND	7
	92 1,2,4-Trimethylbenzene	105		22.149				ND	MU
	93 sec-Butylbenzene	105		22.390				ND	7
	94 1,3-Dichlorobenzene	146	22.566	22.566	0.005	15	1395	0.0131	M
	95 4-Isopropyltoluene	119		22.609				ND	7
	96 1,4-Dichlorobenzene	146	22.716	22.716	0.010	31	1605	0.0159	M
	97 Benzyl chloride	91	22.877	22.877	0.022	13	1460	0.0116	M
	98 n-Butylbenzene	91		23.166				ND	7
	99 1,2-Dichlorobenzene	146	23.198	23.192	0.006	22	1606	0.0147	
	102 1,2,4-Trichlorobenzene	180		25.573				ND	7
	103 Hexachlorobutadiene	225		25.814				ND	7
	104 Naphthalene	128	26.033	26.033	0.000	1	2474	0.0157	M

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

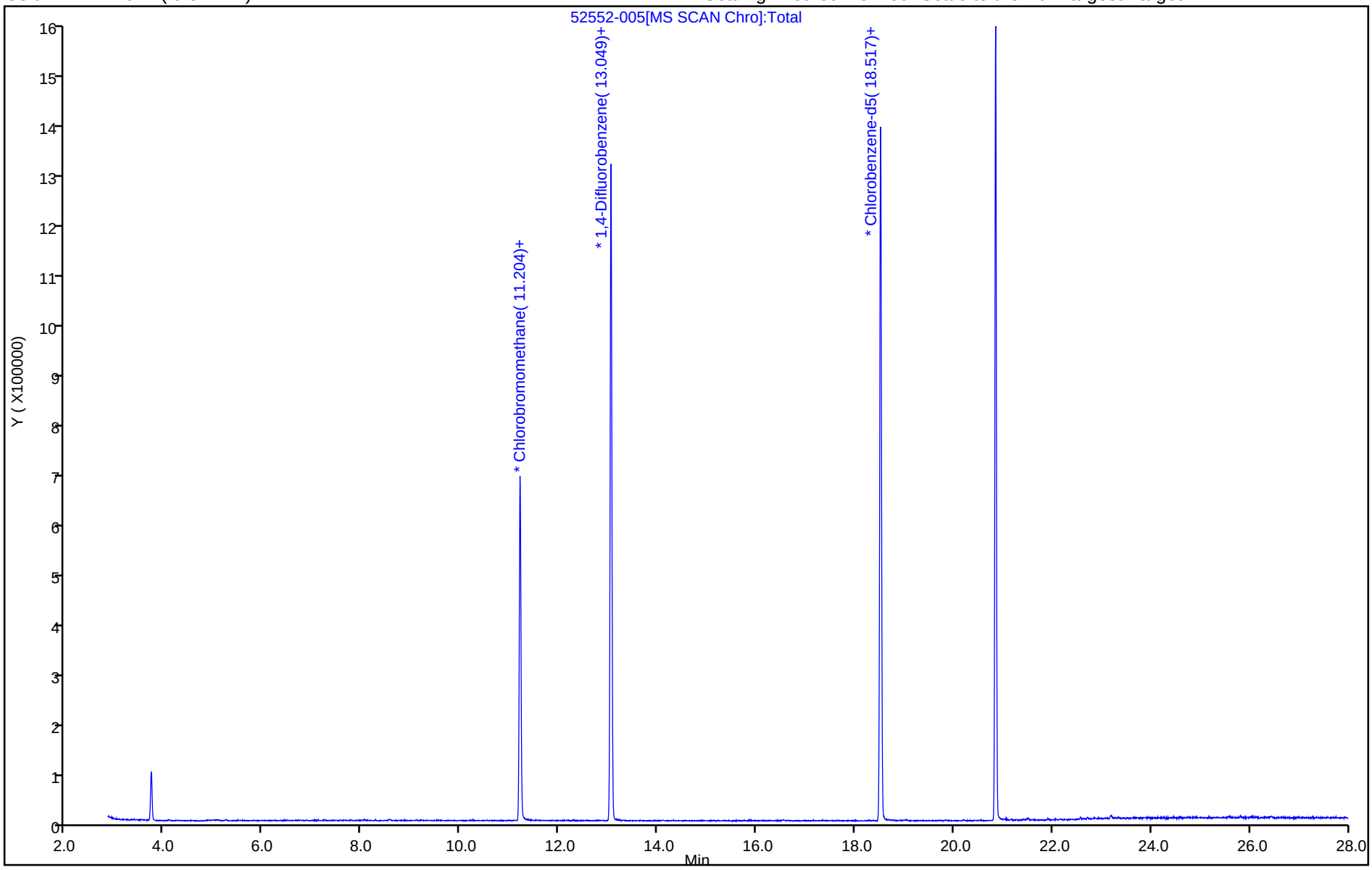
ATTO15WISs_00009	Amount Added: 20.00	Units: mL	Run Reagent

Report Date: 25-Sep-2022 16:42:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Burlington

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Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12	Worklist Smp#:	5
Client ID:	4570				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Burlington

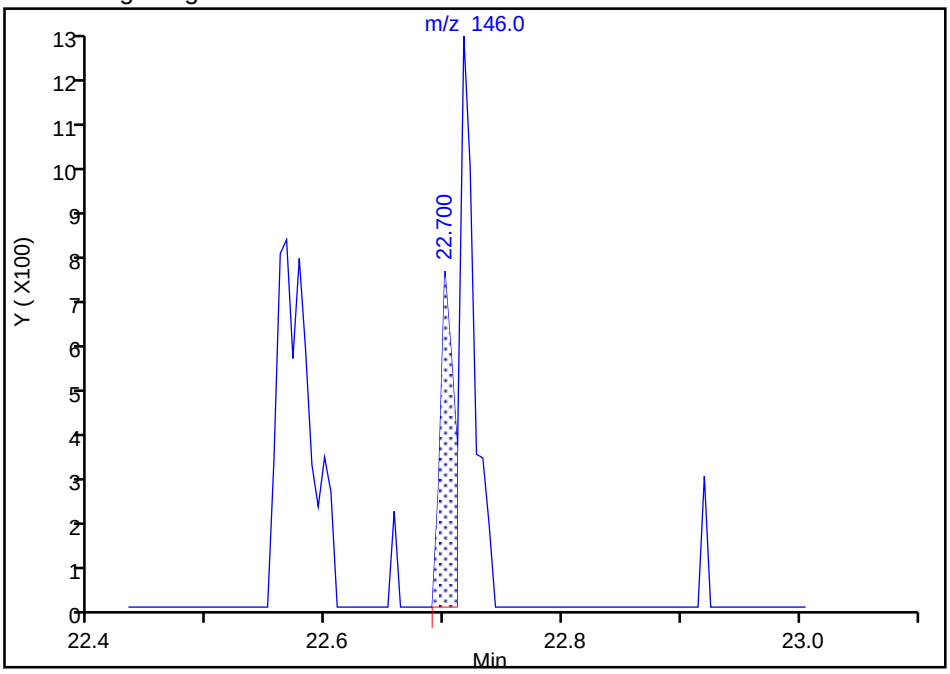
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Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

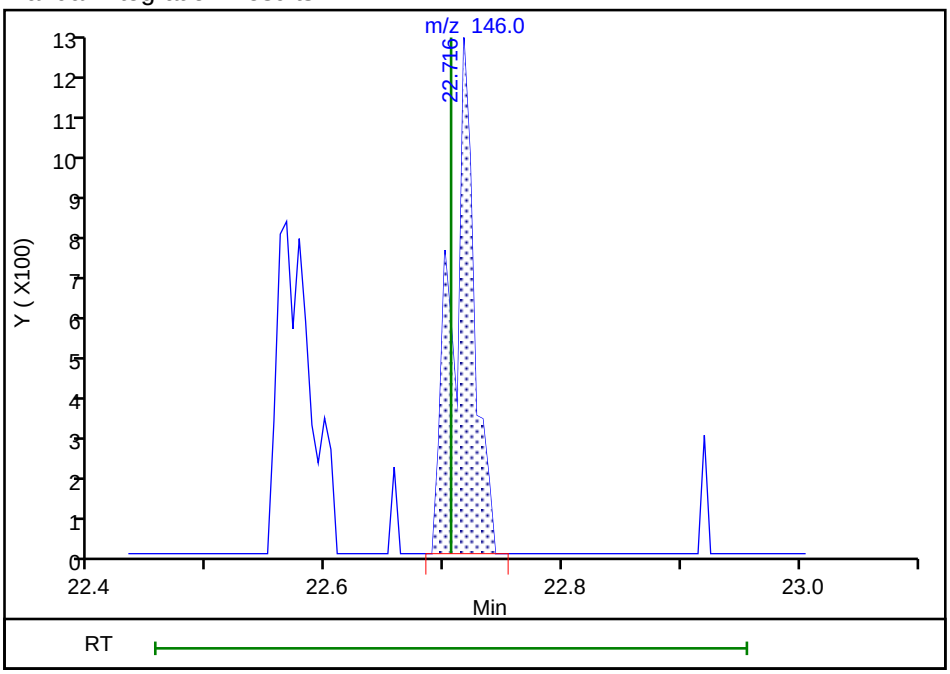
Processing Integration Results

RT: 22.70
Area: 615
Amount: 0.006108
Amount Units: ppb v/v



Manual Integration Results

RT: 22.72
Area: 1605
Amount: 0.015941
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:41:28

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

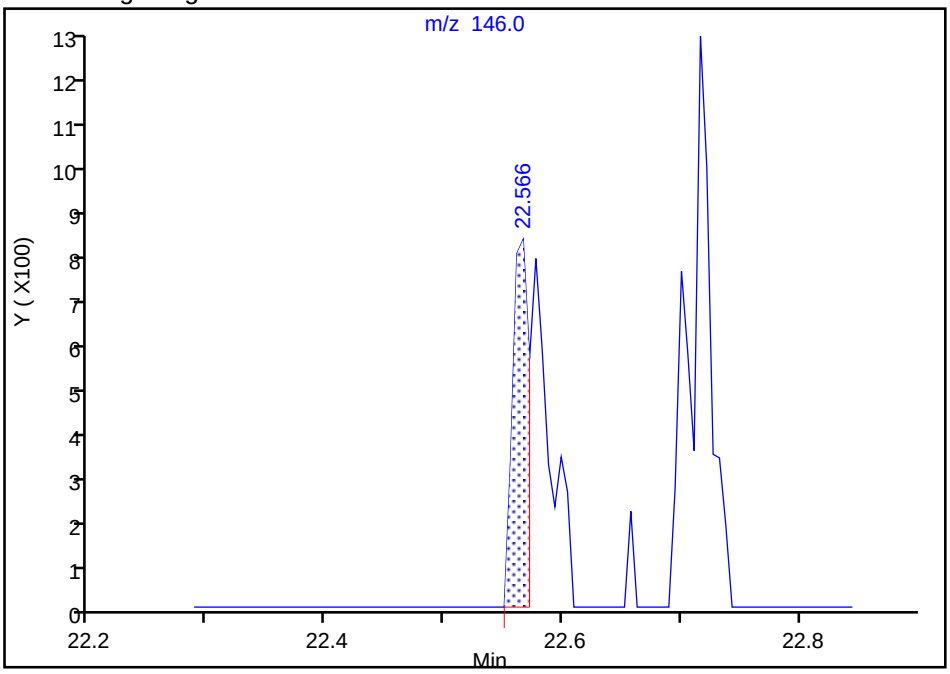
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Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

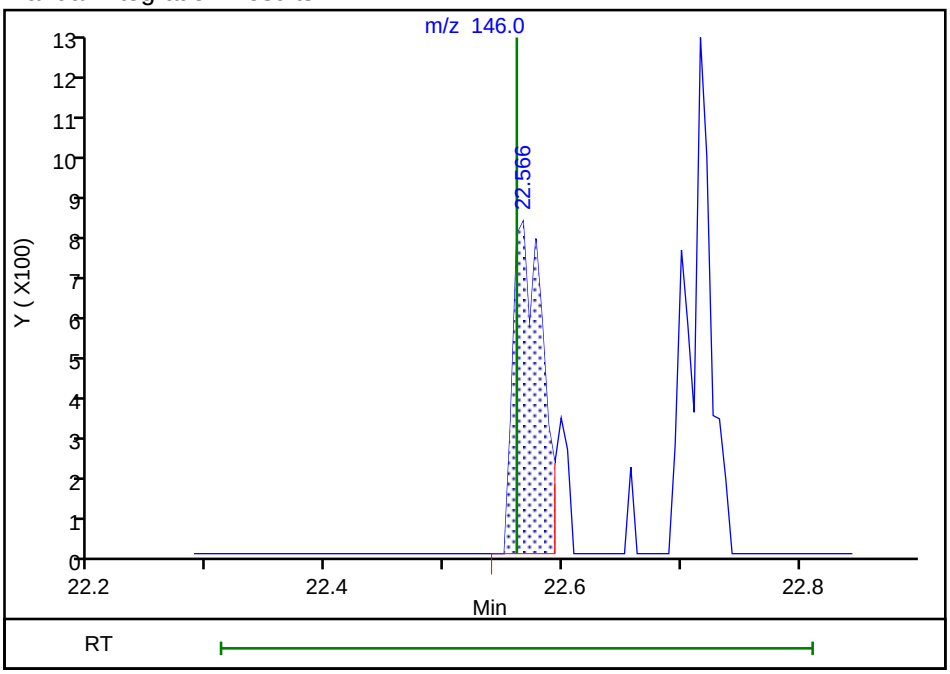
Processing Integration Results

RT: 22.57
Area: 793
Amount: 0.007446
Amount Units: ppb v/v



Manual Integration Results

RT: 22.57
Area: 1395
Amount: 0.013099
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:41:08

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

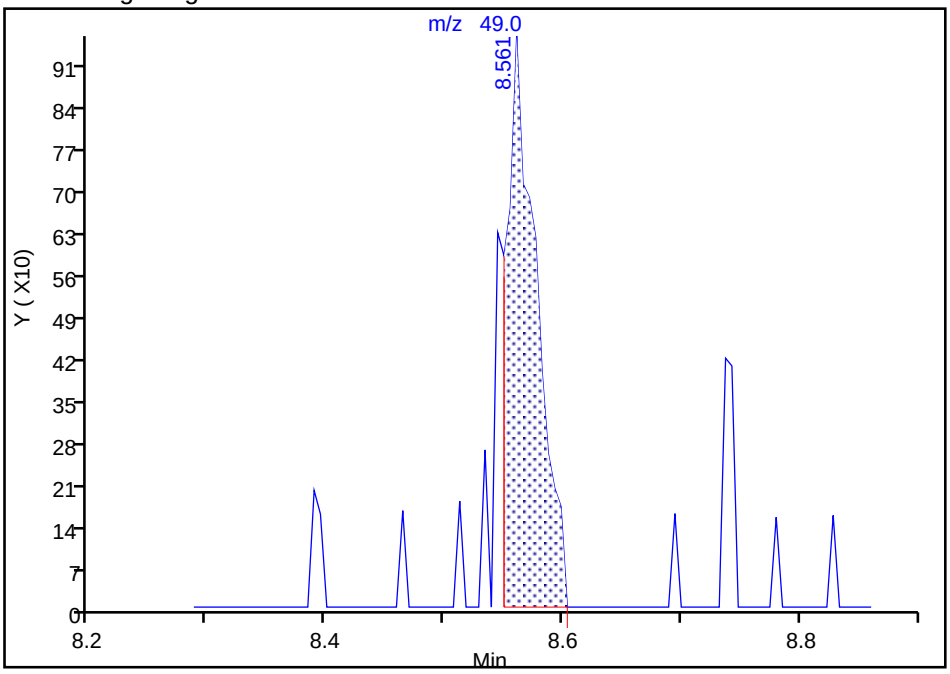
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Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i		
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

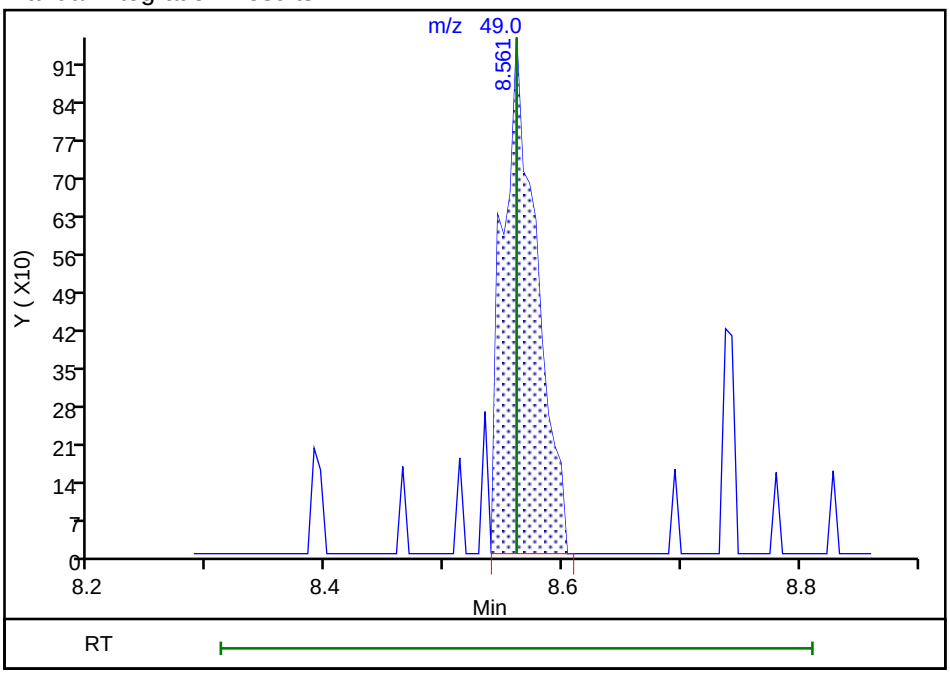
Processing Integration Results

RT: 8.56
Area: 1690
Amount: 0.049122
Amount Units: ppb v/v



Manual Integration Results

RT: 8.56
Area: 1891
Amount: 0.054964
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:38:41

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

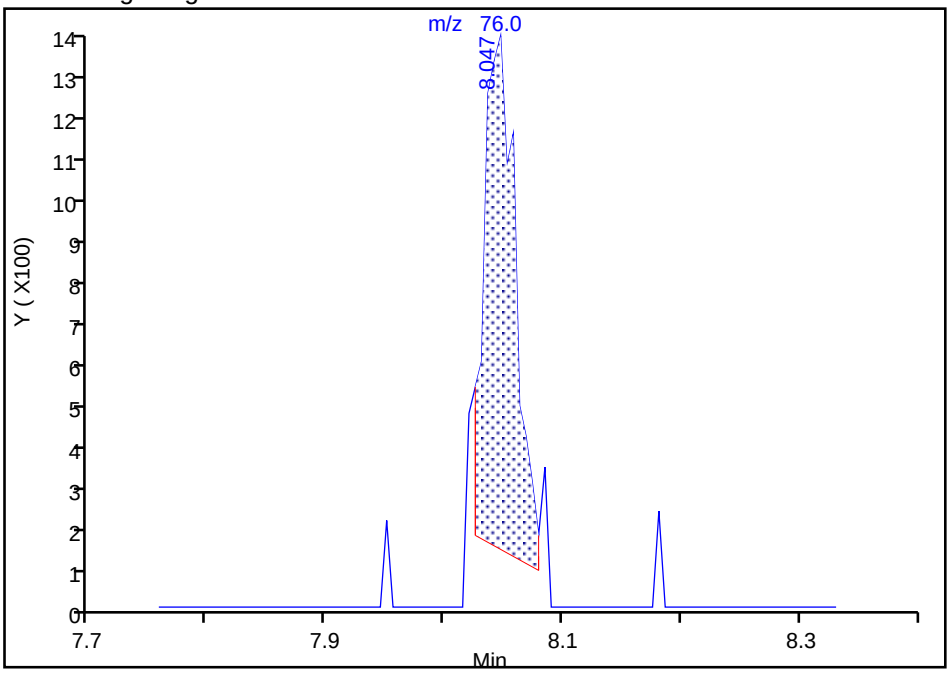
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Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

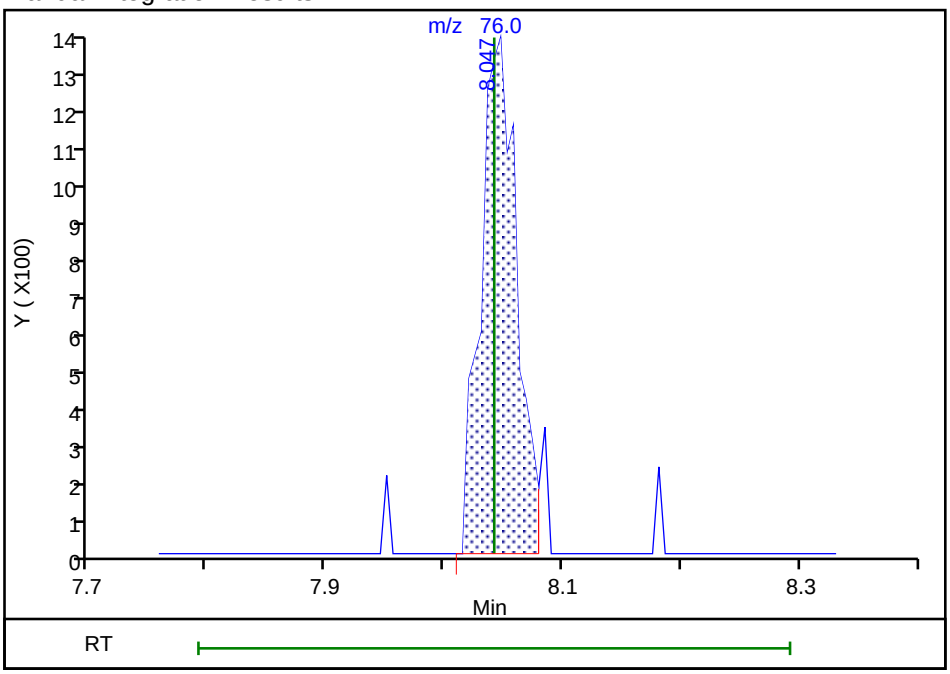
Processing Integration Results

RT: 8.05
Area: 2244
Amount: 0.027963
Amount Units: ppb v/v



Manual Integration Results

RT: 8.05
Area: 2838
Amount: 0.035365
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:38:21

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

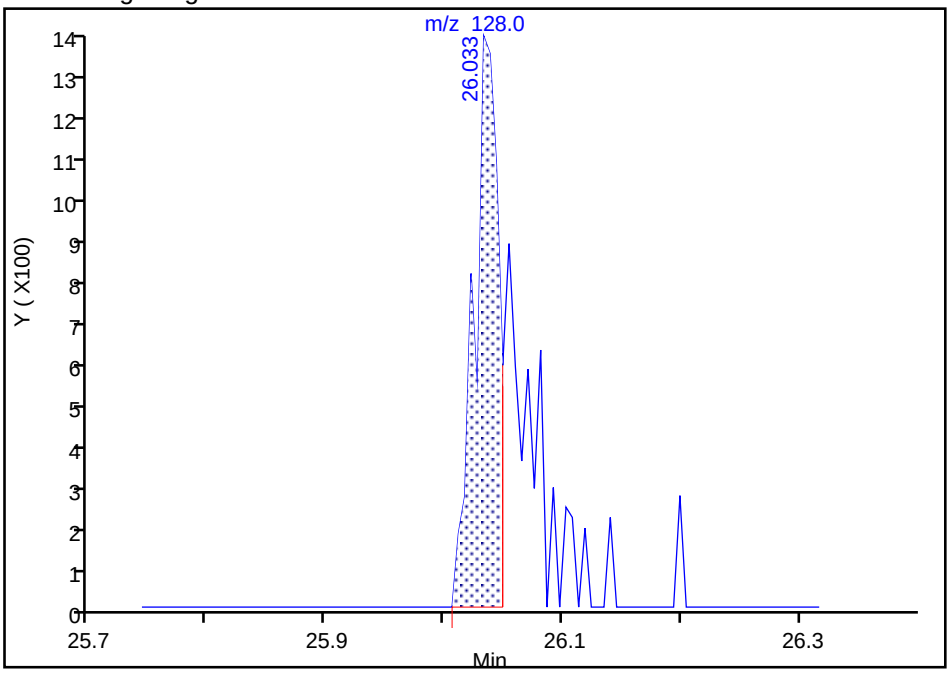
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-005.d				
Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i		
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

104 Naphthalene, CAS: 91-20-3

Signal: 1

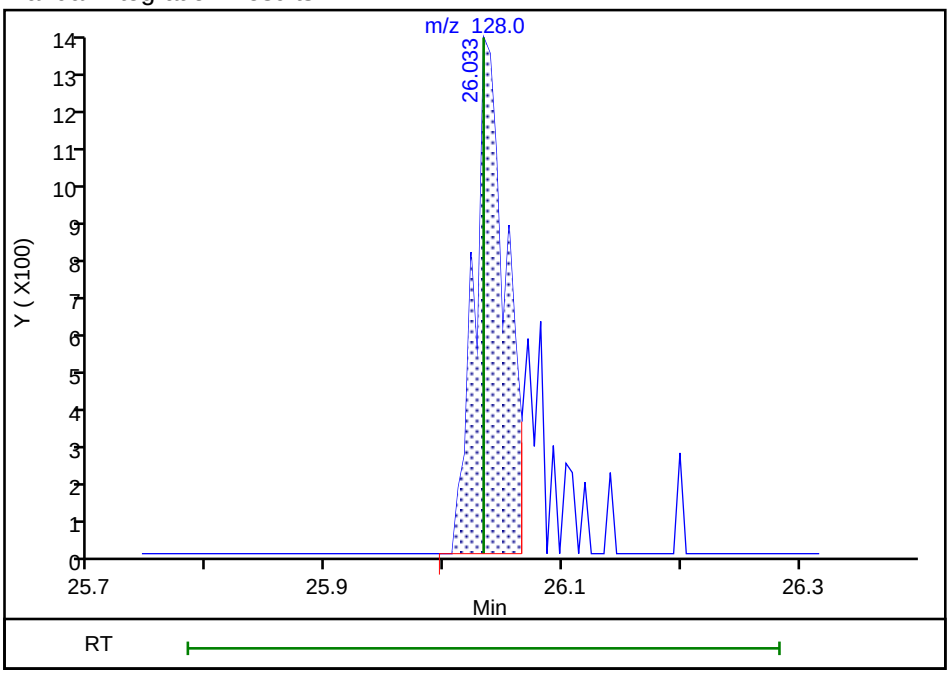
Processing Integration Results

RT: 26.03
Area: 1910
Amount: 0.012098
Amount Units: ppb v/v



Manual Integration Results

RT: 26.03
Area: 2474
Amount: 0.015671
Amount Units: ppb v/v



Reviewer: bunmaa, 25-Sep-2022 16:42:20

Audit Action: Manually Integrated Audit Reason: Assign Peak

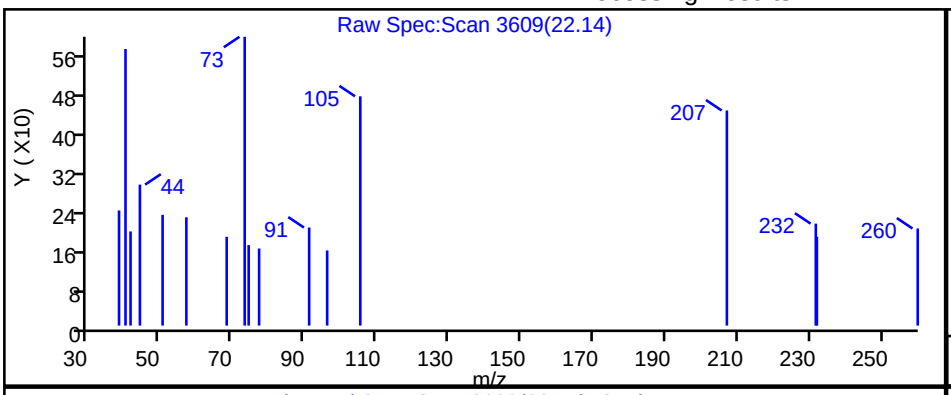
User Disabled Compound Report

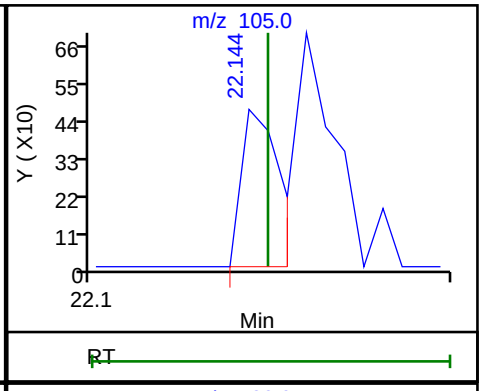
Eurofins Burlington

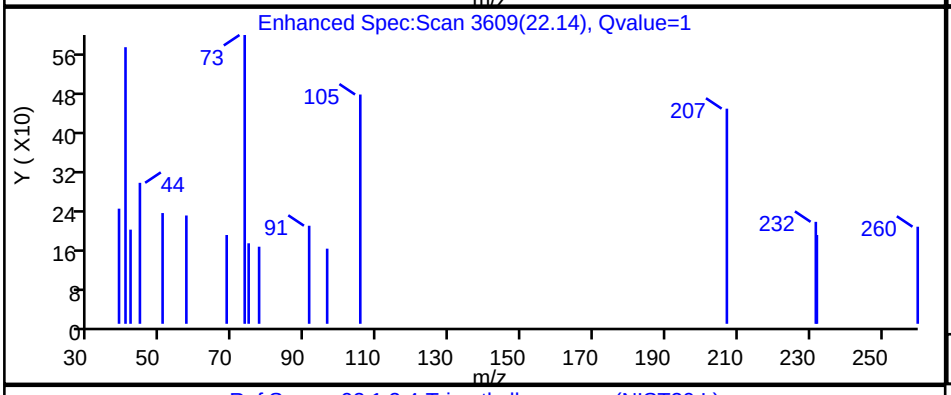
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220923-52552.b\52552-005.d				
Injection Date:	23-Sep-2022 12:56:30	Instrument ID:	CHW.i		
Lims ID:	200-65008-A-12	Lab Sample ID:	200-65008-12		
Client ID:	4570				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

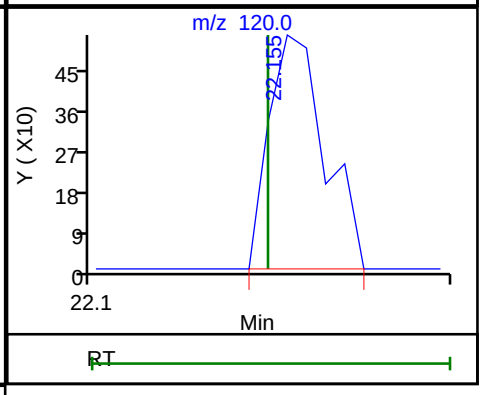
92 1,2,4-Trimethylbenzene, CAS: 95-63-6

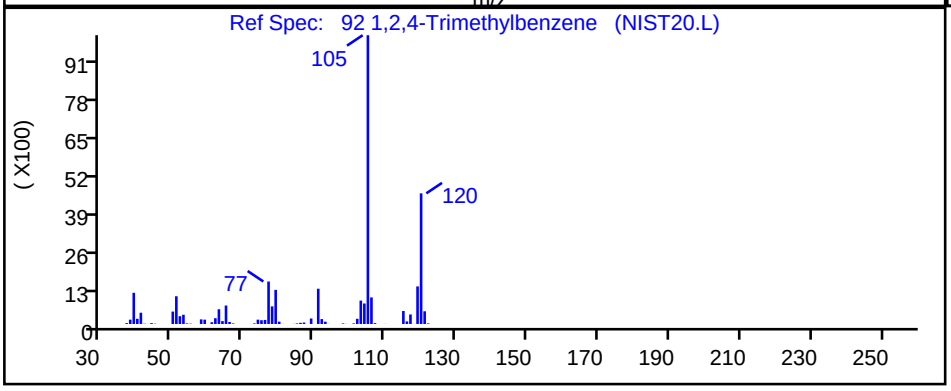
Processing Results











RT	Mass	Response	Amount
22.14	105.00	348	0.001847
22.15	120.00	569	

Reviewer: bunmaa, 25-Sep-2022 16:40:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-266752-1
Client Project/Site: Ikos Senior Living

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco

Melissa Haas

Authorized for release by:
10/11/2022 12:49:19 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@et.eurofinsus.com

LINKS

Review your project results through my EOL

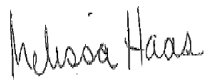
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/11/2022 12:49:19 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
*	Duplicate analysis not within control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-266752-1

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Ikos Senior Living

Report Number: 460-266752-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/3/2022 7:00 PM, 10/4/2022 6:30 PM and 10/5/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 2.6º C, 2.6º C and 3.3º C.

Receipt Exceptions

The client requested that the soils and ground waters collected for this project be split into 2 separate COCs.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were prepared on 10/04/2022, 10/05/2022 and 10/06/2022 and analyzed on 10/05/2022, 10/06/2022, 10/07/2022 and 10/08/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870087 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870199 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

The continuing calibration verification (CCV) associated with batch 460-870378 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870277 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-870277 recovered outside control limits for the following analytes: Carbon tetrachloride, sec-Butylbenzene and tert-Butylbenzene. These analytes were biased low in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-870501 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane and n-Butylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870379 was outside the method criteria for the following analytes: Carbon tetrachloride, Chlorobromomethane, Bromoform and Methyl tert-butyl ether. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-870379 recovered outside control limits for the following analyte: Bromoform. This analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870690 was outside the method criteria for the following analytes: 1,3,5-Trimethylbenzene, Isopropylbenzene, N-Propylbenzene, n-Butylbenzene, sec-Butylbenzene and Tetrachloroethene (biased high) and Dichlorodifluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870776 was outside the method criteria for the following analytes: 1,1,2-Trichloro-1,2,2-trifluoroethane and 1,1-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-870776 recovered outside control limits for the following analyte: Carbon disulfide. This analyte was biased low in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Methods 8270E. The samples were prepared on 10/04/2022, 10/05/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/06/2022, 10/08/2022 and 10/09/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870154 was outside the method criteria for the following analyte(s): Benzaldehyde and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

The continuing calibration verification (CCV) associated with batch 460-870313 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870313 was outside the method criteria for the following analyte(s): 2-Nitroaniline and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870226 and analytical batch 460-870313 recovered outside control limits for the following analytes: Atrazine and Caprolactam. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870349 was outside the method criteria for the following analyte(s): < 2,4-Dinitrophenol, Atrazine and Benzaldehyde>. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870755 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-870853 was outside the method criteria for the following analyte(s): 2-Nitrophenol, 4,6-Dinitro-2-methylphenol and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-01_0-2_20221005 (460-266877-1). Elevated reporting limits (RLs) are provided.

Several analytes failed the recovery criteria low for the MS of sample 460-266324-1 in batch 460-870755.

Several analytes failed the recovery criteria low for the MSD of sample 460-266324-1 in batch 460-870755.

Atrazine and Caprolactam failed the recovery criteria high for the MS of sample 460-266802-4 in batch 460-870313.

Atrazine and Caprolactam failed the recovery criteria high for the MSD of sample 460-266802-4 in batch 460-870313. Benzaldehyde exceeded the RPD limit.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 10/04/2022, 10/05/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/06/2022 and 10/10/2022.

The continuing calibration verification (CCV) associated with batch 460-870169 recovered above the upper control limit for beta-BHC on

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-870169/6).

The %RPD between the primary and confirmation column exceeded 40% for cis-Chlordane for the following sample: SB-02_0-2_20221003 (460-266752-1). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

The continuing calibration verification (CCV) associated with batch 460-870367 recovered above the upper control limit for beta-BHC on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-870367/3).

The %RPD between the primary and confirmation columns exceeded 40% for cis-Chlordane for the following sample: SB-05_0-2_20221004 (460-266826-1). The lower value has been reported and qualified in accordance with the laboratory's SOP.

4,4'-DDE, beta-BHC and Endrin aldehyde failed the recovery criteria low for the MSD of sample 460-266794-1 in batch 460-870367.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 10/04/2022, 10/05/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/06/2022 and 10/10/2022.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared on 10/05/2022, 10/06/2022 and 10/07/2022 and analyzed on 10/05/2022, 10/07/2022 and 10/10/2022.

Antimony and Manganese failed the recovery criteria low for the MS of sample 460-266735-8 in batch 460-870271. Aluminum and Potassium failed the recovery criteria high.

Antimony and Manganese failed the recovery criteria low for the MSD of sample 460-266735-8 in batch 460-870271. Aluminum, Iron and Magnesium failed the recovery criteria high.

Antimony failed the recovery criteria low for the MS of sample 460-266794-1 in batch 460-870468. Several analytes failed the recovery criteria high.

For the MSD of sample 460-266794-1 in batch 460-870468, Antimony and Vanadium failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Calcium, Lead, Nickel and Vanadium exceeded the RPD limit.

Antimony, Calcium and Magnesium failed the recovery criteria low for the MS of sample SB-05_29-31_20221004MS (460-266826-2) in batch 460-870666. Aluminum, Iron and Manganese failed the recovery criteria high.

Job ID: 460-266752-1 (Continued)

Laboratory: Eurofins Edison (Continued)

Several analytes failed the recovery criteria low for the MS of sample 460-266993-2 in batch 460-871052. Calcium, Iron, Lead and Vanadium failed the recovery criteria high.

For the MSD of sample 460-266993-2 in batch 460-871052, Potassium failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Arsenic, Copper, Iron and Manganese exceeded the RPD limit.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were prepared on 10/10/2022 and analyzed on 10/10/2022 and 10/11/2022.

No difficulties were encountered during the hexchrome Cr6 analysis.

All quality control parameters were within the acceptance limits.

MERCURY - TOTAL

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for Mercury - Total in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 10/05/2022, 10/06/2022 and 10/10/2022.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples SB-02_0-2_20221003 (460-266752-1), SB-05_0-2_20221004 (460-266826-1), SB-01_0-2_20221005 (460-266877-1), SB-02_31-33_20221003 (460-266752-2), SB-05_29-31_20221004 (460-266826-2), SB-01_31-33_20221005 (460-266877-2), SB-03_0-2_20221003 (460-266752-3), SB-06_0-2_20221004 (460-266826-3), SB-03_31-33_20221003 (460-266752-4), SB-06_29-31_20221004 (460-266826-4), SB-04_0-2_20221003 (460-266752-5), SB-04_32-34_20221003 (460-266752-6), SB-07_0-2_20221003 (460-266752-7) and SB-07_32-34_20221003 (460-266752-8) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 10/05/2022 and 10/10/2022.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_0-2_20221003 — Lab Sample ID: 460-266752-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0013		0.00020	0.000061	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.031	J	0.035	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.025	J	0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.033	J	0.035	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.35	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.014	J	0.035	0.0069	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.025	J	0.35	0.0060	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.039	J	0.35	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.035	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.015	J	0.35	0.0062	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.039	J	0.35	0.0088	mg/Kg	1	☼	8270E	Total/NA
Chlordane (technical)	0.057	J	0.072	0.017	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.0052	J p	0.0072	0.0011	mg/Kg	1	☼	8081B	Total/NA
Aroclor 1260	0.063	J	0.072	0.019	mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.063	J	0.072	0.019	mg/Kg	1	☼	8082A	Total/NA
Aluminum	4180		20.5	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.5		1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	36.3		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.24	J	0.41	0.058	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.14	J	1.0	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	7730		102	18.1	mg/Kg	1	☼	6020B	Total/NA
Chromium	9.5		2.0	0.93	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.7		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	12.5		2.0	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	7870		61.4	20.7	mg/Kg	1	☼	6020B	Total/NA
Lead	13.0		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4190		102	10.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	207		4.1	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	8.8		2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	744		102	16.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.16	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Sodium	275		102	46.7	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.11	J	0.41	0.042	mg/Kg	1	☼	6020B	Total/NA
Vanadium	14.8		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	36.2		8.2	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.15		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-02_31-33_20221003 — Lab Sample ID: 460-266752-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0071		0.0012	0.0011	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2810		18.9	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.61	J	0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	23.4		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.23	J	0.38	0.054	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.11	J	0.94	0.11	mg/Kg	1	☼	6020B	Total/NA
Calcium	21600		94.4	16.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.3		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Cobalt	2.9		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	9.5		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	6500		56.6	19.1	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample ID: SB-02_31-33_20221003 (Continued) — Lab Sample ID: 460-266752-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.0		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	12100		94.4	9.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	168		3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	6.7		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	522		94.4	15.3	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.17	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Sodium	201		94.4	43.1	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.069	J	0.38	0.039	mg/Kg	1	☼	6020B	Total/NA
Vanadium	9.8		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	15.2		7.6	2.9	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.070		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-03_0-2_20221003 — Lab Sample ID: 460-266752-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.049		0.039	0.014	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.041		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.057		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.39	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.022	J	0.039	0.0076	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.046	J	0.39	0.0066	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.076	J	0.39	0.014	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.035	J	0.39	0.0068	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.075	J	0.39	0.0097	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6790		22.2	6.1	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.16	J	1.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.5		1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	62.6		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.36	J	0.44	0.063	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.21	J	1.1	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	32300		111	19.6	mg/Kg	1	☼	6020B	Total/NA
Chromium	16.4		2.2	1.0	mg/Kg	1	☼	6020B	Total/NA
Cobalt	5.0		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	23.3		2.2	0.41	mg/Kg	1	☼	6020B	Total/NA
Iron	11300		66.6	22.4	mg/Kg	1	☼	6020B	Total/NA
Lead	81.7		0.67	0.22	mg/Kg	1	☼	6020B	Total/NA
Magnesium	5740		111	11.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	216		4.4	0.45	mg/Kg	1	☼	6020B	Total/NA
Nickel	13.5		2.2	0.52	mg/Kg	1	☼	6020B	Total/NA
Potassium	1360		111	18.0	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.18	J	1.4	0.14	mg/Kg	1	☼	6020B	Total/NA
Sodium	309		111	50.7	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.093	J	0.44	0.045	mg/Kg	1	☼	6020B	Total/NA
Vanadium	20.8		2.2	0.23	mg/Kg	1	☼	6020B	Total/NA
Zinc	65.1		8.9	3.4	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.077		0.018	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-03_31-33_20221003 — Lab Sample ID: 460-266752-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0012	0.0011	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-03_31-33_20221003 (Continued) — Lab Sample ID: 460-266752-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3030		20.0	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.86	J	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	19.1		2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.16	J	0.40	0.057	mg/Kg	1	☼	6020B	Total/NA
Calcium	1560		99.8	17.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	10.1		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Cobalt	2.6		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	8.2		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	6720		59.9	20.2	mg/Kg	1	☼	6020B	Total/NA
Lead	2.7		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	1940		99.8	10.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	177		4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Nickel	6.4		2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	510		99.8	16.2	mg/Kg	1	☼	6020B	Total/NA
Sodium	161		99.8	45.6	mg/Kg	1	☼	6020B	Total/NA
Vanadium	8.5		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	14.4		8.0	3.0	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.071		0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-04_0-2_20221003 — Lab Sample ID: 460-266752-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.025	J	0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.092		0.037	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.080		0.037	0.0098	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.11		0.037	0.0095	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.042	J	0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.036	J	0.037	0.0072	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.080	J	0.37	0.019	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.088	J	0.37	0.0062	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.17	J	0.37	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.048		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.10	J	0.37	0.0065	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.17	J	0.37	0.0092	mg/Kg	1	☼	8270E	Total/NA
Aluminum	9180		21.7	6.0	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.49	J	1.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Arsenic	4.0		1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	78.8		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.63		0.43	0.062	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.43	J	1.1	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	9950		109	19.2	mg/Kg	1	☼	6020B	Total/NA
Chromium	19.1		2.2	0.99	mg/Kg	1	☼	6020B	Total/NA
Cobalt	9.6		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	34.8		2.2	0.40	mg/Kg	1	☼	6020B	Total/NA
Iron	20700		65.1	21.9	mg/Kg	1	☼	6020B	Total/NA
Lead	80.0		0.65	0.22	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4900		109	11.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	689		4.3	0.44	mg/Kg	1	☼	6020B	Total/NA
Nickel	20.7		2.2	0.51	mg/Kg	1	☼	6020B	Total/NA
Potassium	2720		109	17.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.35	J	1.4	0.14	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-04_0-2_20221003 (Continued) — Lab Sample ID: 460-266752-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	301		109	49.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.21	J	0.43	0.045	mg/Kg	1	☼	6020B	Total/NA
Vanadium	31.6		2.2	0.22	mg/Kg	1	☼	6020B	Total/NA
Zinc	107		8.7	3.3	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.59		0.017	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-04_32-34_20221003 — Lab Sample ID: 460-266752-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4170		20.2	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.3		1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	35.4		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.26	J	0.40	0.058	mg/Kg	1	☼	6020B	Total/NA
Calcium	1230		101	17.9	mg/Kg	1	☼	6020B	Total/NA
Chromium	19.3		2.0	0.92	mg/Kg	1	☼	6020B	Total/NA
Cobalt	4.6		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	18.3		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	10400		60.7	20.4	mg/Kg	1	☼	6020B	Total/NA
Lead	6.1		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	2050		101	10.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	268		4.0	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	10.2		2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	826		101	16.4	mg/Kg	1	☼	6020B	Total/NA
Sodium	199		101	46.2	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.070	J	0.40	0.041	mg/Kg	1	☼	6020B	Total/NA
Vanadium	15.3		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	27.3		8.1	3.1	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB-07_0-2_20221003 — Lab Sample ID: 460-266752-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010		0.0013	0.0012	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.00024		0.00022	0.000066	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.061		0.037	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.056		0.037	0.0099	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.083		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.029	J	0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.035	J	0.037	0.0073	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.022	J	0.37	0.020	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.062	J	0.37	0.0063	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.094	J	0.37	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.037	0.015	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.039	J	0.37	0.0066	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.093	J	0.37	0.0093	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5980		21.0	5.8	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.20	J	1.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Arsenic	3.9		1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	66.6		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.31	J	0.42	0.060	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.33	J	1.0	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	27200		105	18.6	mg/Kg	1	☼	6020B	Total/NA
Chromium	15.1		2.1	0.95	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-07_0-2_20221003 (Continued) — Lab Sample ID: 460-266752-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.4		2.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	39.8		2.1	0.39	mg/Kg	1	☼	6020B	Total/NA
Iron	13300		62.9	21.2	mg/Kg	1	☼	6020B	Total/NA
Lead	131		0.63	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	11900		105	10.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	274		4.2	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	16.8		2.1	0.49	mg/Kg	1	☼	6020B	Total/NA
Potassium	1220		105	17.0	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.19	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Silver	0.11	J	0.42	0.093	mg/Kg	1	☼	6020B	Total/NA
Sodium	402		105	47.9	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.11	J	0.42	0.043	mg/Kg	1	☼	6020B	Total/NA
Vanadium	32.6		2.1	0.22	mg/Kg	1	☼	6020B	Total/NA
Zinc	109		8.4	3.2	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.11		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-07_32-34_20221003 — Lab Sample ID: 460-266752-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.031		0.0012	0.0012	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.00024		0.00020	0.000061	mg/Kg	1	☼	8260D	Total/NA
Aluminum	3830		19.9	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.0		1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	29.2		2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.22	J	0.40	0.057	mg/Kg	1	☼	6020B	Total/NA
Calcium	6370		99.7	17.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	10.2		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.6		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	15.4		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	8020		59.8	20.1	mg/Kg	1	☼	6020B	Total/NA
Lead	13.7		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4700		99.7	10.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	212		4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Nickel	8.1		2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	729		99.7	16.2	mg/Kg	1	☼	6020B	Total/NA
Sodium	170		99.7	45.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.062	J	0.40	0.041	mg/Kg	1	☼	6020B	Total/NA
Vanadium	13.4		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	21.4		8.0	3.0	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB-05_0-2_20221004 — Lab Sample ID: 460-266826-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0097		0.0011	0.00033	mg/Kg	1	☼	8260D	Total/NA
1,1'-Biphenyl	0.14	J	0.37	0.013	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.28	J	0.37	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthene	2.7		0.37	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.67		0.37	0.010	mg/Kg	1	☼	8270E	Total/NA
Anthracene	6.5		0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	7.5		0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	7.6		0.037	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	1.9		0.37	0.014	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-05_0-2_20221004 (Continued)

Lab Sample ID: 460-266826-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	2.7		0.037	0.016	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	1.2		0.37	0.012	mg/Kg	1	☼	8270E	Total/NA
Di-n-butyl phthalate	0.026	J	0.37	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluorene	2.5		0.37	0.011	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.47		0.37	0.0063	mg/Kg	1	☼	8270E	Total/NA
N-Nitrosodiphenylamine	0.056	J	0.37	0.030	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene - DL	25		0.37	0.13	mg/Kg	10	☼	8270E	Total/NA
Benzo[a]pyrene - DL	23		0.37	0.098	mg/Kg	10	☼	8270E	Total/NA
Benzo[b]fluoranthene - DL	29		0.37	0.095	mg/Kg	10	☼	8270E	Total/NA
Chrysene - DL	23		3.7	0.062	mg/Kg	10	☼	8270E	Total/NA
Fluoranthene - DL	48		3.7	0.13	mg/Kg	10	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene - DL	17		0.37	0.14	mg/Kg	10	☼	8270E	Total/NA
Phenanthrene - DL	27		3.7	0.064	mg/Kg	10	☼	8270E	Total/NA
Pyrene - DL	38		3.7	0.091	mg/Kg	10	☼	8270E	Total/NA
4,4'-DDT	0.0063	J	0.0074	0.0014	mg/Kg	1	☼	8081B	Total/NA
Chlordane (technical)	0.12		0.074	0.018	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.013	p	0.0074	0.0012	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.0027		0.0022	0.00097	mg/Kg	1	☼	8081B	Total/NA
Aluminum	6680		21.8	6.0	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.30	J	1.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Arsenic	6.9		1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	119		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.40	J	0.44	0.062	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.66	J	1.1	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	18600		109	19.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	15.5		2.2	0.99	mg/Kg	1	☼	6020B	Total/NA
Cobalt	5.3		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	63.1		2.2	0.40	mg/Kg	1	☼	6020B	Total/NA
Iron	13600		65.3	22.0	mg/Kg	1	☼	6020B	Total/NA
Lead	283		0.65	0.22	mg/Kg	1	☼	6020B	Total/NA
Magnesium	5510		109	11.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	265		4.4	0.44	mg/Kg	1	☼	6020B	Total/NA
Nickel	16.3		2.2	0.51	mg/Kg	1	☼	6020B	Total/NA
Potassium	1050		109	17.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.48	J	1.4	0.14	mg/Kg	1	☼	6020B	Total/NA
Silver	0.25	J	0.44	0.097	mg/Kg	1	☼	6020B	Total/NA
Sodium	444		109	49.7	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.13	J	0.44	0.045	mg/Kg	1	☼	6020B	Total/NA
Vanadium	28.1		2.2	0.22	mg/Kg	1	☼	6020B	Total/NA
Zinc	149		8.7	3.3	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.094		0.019	0.0089	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.14		0.0096	0.0092	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0014	J	0.0016	0.00049	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.030	J	0.34	0.0097	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.037	J	0.34	0.0098	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.080	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.27		0.034	0.012	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-05_29-31_20221004 (Continued) — Lab Sample ID: 460-266826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.29		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.39		0.034	0.0088	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.3		0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.14		0.034	0.0067	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.023	J	0.34	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.20	J	0.34	0.0058	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.22		0.034	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.46		0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.018	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.0062	J	0.34	0.0059	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.18	J	0.34	0.0060	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.39		0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	3380		20.7	5.7	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.72	J	1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	22.4		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.19	J	0.41	0.059	mg/Kg	1	☼	6020B	Total/NA
Calcium	18100		104	18.4	mg/Kg	1	☼	6020B	Total/NA
Chromium	9.7		2.1	0.94	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.0		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	8.9		2.1	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	6800		62.2	20.9	mg/Kg	1	☼	6020B	Total/NA
Lead	4.8		0.62	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	9550		104	10.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	190		4.1	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	6.7		2.1	0.49	mg/Kg	1	☼	6020B	Total/NA
Potassium	694		104	16.8	mg/Kg	1	☼	6020B	Total/NA
Sodium	175		104	47.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	12.5		2.1	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	16.4		8.3	3.2	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB-06_0-2_20221004 — Lab Sample ID: 460-266826-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.010	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.028	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.13		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.17		0.036	0.0094	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.062	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.066		0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.11	J	0.36	0.0061	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.22	J	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.12	J	0.36	0.0064	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.21	J	0.36	0.0090	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6750		20.8	5.7	mg/Kg	1	☼	6020B	Total/NA
Arsenic	3.4		1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	37.3		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.41	J	0.42	0.059	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.16	J	1.0	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	8910		104	18.4	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-06_0-2_20221004 (Continued) — Lab Sample ID: 460-266826-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12.3		2.1	0.95	mg/Kg	1	☼	6020B	Total/NA
Cobalt	6.0		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	27.7		2.1	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	11500		62.5	21.0	mg/Kg	1	☼	6020B	Total/NA
Lead	30.4		0.62	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	3720		104	10.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	335		4.2	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	12.3		2.1	0.49	mg/Kg	1	☼	6020B	Total/NA
Potassium	763		104	16.9	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.19	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Sodium	281		104	47.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.079	J	0.42	0.043	mg/Kg	1	☼	6020B	Total/NA
Vanadium	17.2		2.1	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	42.5		8.3	3.2	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.075		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-06_29-31_20221004 — Lab Sample ID: 460-266826-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.00087	J	0.0012	0.00037	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.023	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.053		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.049	J	0.34	0.0058	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.10	J	0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.071		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.076	J	0.34	0.0060	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.10	J	0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	3730		20.1	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.79	J	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	23.0		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.19	J	0.40	0.057	mg/Kg	1	☼	6020B	Total/NA
Calcium	22200		101	17.8	mg/Kg	1	☼	6020B	Total/NA
Chromium	9.1		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Cobalt	3.7		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	9.6		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	8350		60.4	20.3	mg/Kg	1	☼	6020B	Total/NA
Lead	2.2		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	14700		101	10.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	176		4.0	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	7.9		2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	918		101	16.3	mg/Kg	1	☼	6020B	Total/NA
Sodium	281		101	46.0	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.049	J	0.40	0.041	mg/Kg	1	☼	6020B	Total/NA
Vanadium	15.5		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	22.7		8.1	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.034		0.016	0.0075	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-01_0-2_20221005 — Lab Sample ID: 460-266877-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.00055	J	0.0013	0.00033	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-01_0-2_20221005 (Continued)

Lab Sample ID: 460-266877-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	0.081	J	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.28	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthene	0.84		0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.22	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Anthracene	2.3		0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	6.5		0.036	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	5.3		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	7.1		0.036	0.0093	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	3.3		0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.3		0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.86		0.36	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	6.0		0.36	0.0061	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.95		0.036	0.016	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.50		0.36	0.012	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.77		0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	4.2		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.37		0.36	0.0062	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene - DL	18		1.8	0.063	mg/Kg	5	☼	8270E	Total/NA
Phenanthrene - DL	16		1.8	0.032	mg/Kg	5	☼	8270E	Total/NA
Pyrene - DL	17		1.8	0.045	mg/Kg	5	☼	8270E	Total/NA
4,4'-DDT	0.0033	J	0.0073	0.0013	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.0020	J	0.0022	0.00095	mg/Kg	1	☼	8081B	Total/NA
Aluminum	5960		17.3	4.8	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.25	J	0.87	0.13	mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.2		0.87	0.089	mg/Kg	1	☼	6020B	Total/NA
Barium	35.1		1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.32	J	0.35	0.049	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.098	J	0.87	0.098	mg/Kg	1	☼	6020B	Total/NA
Calcium	5840		86.6	15.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	16.7		1.7	0.79	mg/Kg	1	☼	6020B	Total/NA
Cobalt	5.2		1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	15.2		1.7	0.32	mg/Kg	1	☼	6020B	Total/NA
Iron	10500		51.9	17.5	mg/Kg	1	☼	6020B	Total/NA
Lead	19.1		0.52	0.17	mg/Kg	1	☼	6020B	Total/NA
Magnesium	2460		86.6	8.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	338		3.5	0.35	mg/Kg	1	☼	6020B	Total/NA
Nickel	12.1		1.7	0.41	mg/Kg	1	☼	6020B	Total/NA
Potassium	714		86.6	14.0	mg/Kg	1	☼	6020B	Total/NA
Sodium	152		86.6	39.6	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.058	J	0.35	0.035	mg/Kg	1	☼	6020B	Total/NA
Vanadium	21.8		1.7	0.18	mg/Kg	1	☼	6020B	Total/NA
Zinc	28.9		6.9	2.6	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.018		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-01_31-33_20221005

Lab Sample ID: 460-266877-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.16		0.0079	0.0075	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0020		0.0013	0.00040	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2340		16.1	4.4	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.62	J	0.81	0.083	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-01_31-33_20221005 (Continued)

Lab Sample ID: 460-266877-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	20.7		1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.12	J	0.32	0.046	mg/Kg	1	☼	6020B	Total/NA
Calcium	7590		80.7	14.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.0		1.6	0.73	mg/Kg	1	☼	6020B	Total/NA
Cobalt	2.9		1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Copper	6.8		1.6	0.30	mg/Kg	1	☼	6020B	Total/NA
Iron	5240		48.4	16.3	mg/Kg	1	☼	6020B	Total/NA
Lead	2.8		0.48	0.16	mg/Kg	1	☼	6020B	Total/NA
Magnesium	4370		80.7	8.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	183		3.2	0.33	mg/Kg	1	☼	6020B	Total/NA
Nickel	5.7		1.6	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	383		80.7	13.1	mg/Kg	1	☼	6020B	Total/NA
Sodium	117		80.7	36.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.4		1.6	0.17	mg/Kg	1	☼	6020B	Total/NA
Zinc	10.2		6.5	2.5	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid
Percent Solids: 93.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000043	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000061	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000041	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000092	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000073	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000073	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
2-Butanone (MEK)	0.0010	U	0.0010	0.000074	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
2-Hexanone	0.0010	U	0.0010	0.00034	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
4-Methyl-2-pentanone (MIBK)	0.0010	U	0.0010	0.00031	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Acetone	0.0012	U	0.0012	0.0011	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Benzene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Bromoform	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Bromomethane	0.00040	U	0.00040	0.00020	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Carbon disulfide	0.00020	U	0.00020	0.000053	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Carbon tetrachloride	0.00020	U	0.00020	0.000078	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chlorobromomethane	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chlorodibromomethane	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chloroethane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chloroform	0.00020	U	0.00020	0.00020	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Chloromethane	0.00020	U	0.00020	0.000087	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Cyclohexane	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Dichlorobromomethane	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000068	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Ethylbenzene	0.00020	U	0.00020	0.000040	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Ethylene Dibromide	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Isopropylbenzene	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methyl acetate	0.0010	U	0.0010	0.00086	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methylcyclohexane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Methylene Chloride	0.00040	U	0.00040	0.00023	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
n-Butylbenzene	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
N-Propylbenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
o-Xylene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
sec-Butylbenzene	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Styrene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1

Client Sample ID: SB-02_0-2_20221003

Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1

Matrix: Solid
Percent Solids: 93.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Tetrachloroethene	**0.0013**		0.00020	0.000061	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Toluene	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000053	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Trichloroethene	0.00020	U	0.00020	0.000065	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000082	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1
Xylenes, Total	0.00040	U	0.00040	0.000035	mg/Kg	☼	10/04/22 13:27	10/05/22 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*	*10/04/22 13:27*	*10/05/22 17:15*	*1*
4-Bromofluorobenzene	*104*		*75 - 139*	*10/04/22 13:27*	*10/05/22 17:15*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 139*	*10/04/22 13:27*	*10/05/22 17:15*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*	*10/04/22 13:27*	*10/05/22 17:15*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
1,2,4,5-Tetrachlorobenzene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
1,4-Dioxane	0.035	U	0.035	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,2'-oxybis[1-chloropropane]	0.35	U	0.35	0.0064	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,3,4,6-Tetrachlorophenol	0.35	U	0.35	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.036	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dichlorophenol	0.14	U	0.14	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dimethylphenol	0.35	U	0.35	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dinitrophenol	0.28	U	0.28	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,4-Dinitrotoluene	0.072	U	0.072	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2,6-Dinitrotoluene	0.072	U	0.072	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Chloronaphthalene	0.35	U	0.35	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Chlorophenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Methylnaphthalene	0.35	U	0.35	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Methylphenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Nitroaniline	0.35	U	0.35	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
2-Nitrophenol	0.35	U	0.35	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
3 & 4 Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
3-Nitroaniline	0.35	U	0.35	0.084	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4,6-Dinitro-2-methylphenol	0.28	U	0.28	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Bromophenyl phenyl ether	0.35	U	0.35	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Chloroaniline	0.35	U	0.35	0.063	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Chlorophenyl phenyl ether	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Nitroaniline	0.35	U	0.35	0.041	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Acenaphthene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Acenaphthylene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Acetophenone	0.35	U	0.35	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid
Percent Solids: 93.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Atrazine	0.14	U	0.14	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzaldehyde	0.35	U	0.35	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[a]anthracene	**0.031**	**J**	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[a]pyrene	**0.025**	**J**	0.035	0.0094	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[b]fluoranthene	**0.033**	**J**	0.035	0.0091	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Benzo[k]fluoranthene	**0.014**	**J**	0.035	0.0069	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Bis(2-chloroethoxy)methane	0.35	U	0.35	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Bis(2-chloroethyl)ether	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Bis(2-ethylhexyl) phthalate	0.35	U	0.35	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Butyl benzyl phthalate	0.35	U	0.35	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Caprolactam	0.35	U	0.35	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Carbazole	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Chrysene	**0.025**	**J**	0.35	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Dibenzofuran	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Diethyl phthalate	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Dimethyl phthalate	0.35	U	0.35	0.080	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Di-n-butyl phthalate	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Di-n-octyl phthalate	0.35	U	0.35	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Fluoranthene	**0.039**	**J**	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Fluorene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachlorobenzene	0.035	U	0.035	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachlorobutadiene	0.072	U	0.072	0.0075	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachlorocyclopentadiene	0.35	U	0.35	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Hexachloroethane	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Indeno[1,2,3-cd]pyrene	**0.018**	**J**	0.035	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Isophorone	0.14	U	0.14	0.10	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Naphthalene	0.35	U	0.35	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Nitrobenzene	0.035	U	0.035	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
N-Nitrosodi-n-propylamine	0.035	U	0.035	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
N-Nitrosodiphenylamine	0.35	U	0.35	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Pentachlorophenol	0.28	U	0.28	0.072	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Phenanthrene	**0.015**	**J**	0.35	0.0062	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Phenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1
Pyrene	**0.039**	**J**	0.35	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 123*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
2-Fluorobiphenyl	*84*		*22 - 122*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 123*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
Nitrobenzene-d5 (Surr)	*74*		*16 - 125*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
Phenol-d5 (Surr)	*70*		*23 - 120*	*10/04/22 18:31*	*10/05/22 06:08*	*1*
Terphenyl-d14 (Surr)	*87*		*25 - 126*	*10/04/22 18:31*	*10/05/22 06:08*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0072	U	0.0072	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
4,4'-DDE	0.0072	U	0.0072	0.00084	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1

Client Sample ID: SB-02_0-2_20221003

Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1

Matrix: Solid
Percent Solids: 93.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0072	U	0.0072	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Aldrin	0.0072	U	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
alpha-BHC	0.0021	U	0.0021	0.00073	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
beta-BHC	0.0021	U	0.0021	0.00080	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Chlordane (technical)	**0.057**	**J**	0.072	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
cis-Chlordane	**0.0052**	**J p**	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
delta-BHC	0.0021	U	0.0021	0.00044	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Dieldrin	0.0021	U	0.0021	0.00093	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endosulfan I	0.0072	U	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endosulfan II	0.0072	U	0.0072	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endosulfan sulfate	0.0072	U	0.0072	0.00090	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endrin	0.0072	U	0.0072	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endrin aldehyde	0.0072	U	0.0072	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Endrin ketone	0.0072	U	0.0072	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00066	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Heptachlor	0.0072	U	0.0072	0.00084	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Heptachlor epoxide	0.0072	U	0.0072	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Methoxychlor	0.0072	U	0.0072	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1
Toxaphene	0.072	U	0.072	0.026	mg/Kg	☼	10/04/22 16:51	10/05/22 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:18*	*1*
DCB Decachlorobiphenyl	*69*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:18*	*1*
Tetrachloro-m-xylene	*93*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:18*	*1*
Tetrachloro-m-xylene	*88*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:18*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1221	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1232	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1242	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1248	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1254	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1260	**0.063**	**J**	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor-1262	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Aroclor 1268	0.072	U	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1
Polychlorinated biphenyls, Total	**0.063**	**J**	0.072	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*10 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*
DCB Decachlorobiphenyl	*93*		*10 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*
Tetrachloro-m-xylene	*91*		*42 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 10:55*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4180**		20.5	5.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Arsenic	**1.5**		1.0	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1

Client Sample ID: SB-02_0-2_20221003

Lab Sample ID: 460-266752-1
Date Collected: 10/03/22 09:10
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 93.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	36.3		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Beryllium	0.24	J	0.41	0.058	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Cadmium	0.14	J	1.0	0.12	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Calcium	7730		102	18.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Chromium	9.5		2.0	0.93	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Cobalt	3.7		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Copper	12.5		2.0	0.38	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Iron	7870		61.4	20.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Lead	13.0		0.61	0.20	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Magnesium	4190		102	10.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Manganese	207		4.1	0.41	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Nickel	8.8		2.0	0.48	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Potassium	744		102	16.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Selenium	0.16	J	1.3	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Silver	0.41	U	0.41	0.091	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Sodium	275		102	46.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Thallium	0.11	J	0.41	0.042	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Vanadium	14.8		2.0	0.21	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1
Zinc	36.2		8.2	3.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.017	0.0082	mg/Kg	☼	10/05/22 00:06	10/05/22 04:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.91	mg/Kg	☼	10/10/22 08:32	10/10/22 13:40	1
Percent Moisture (EPA Moisture)	6.9		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	93.1		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-02_31-33_20221003

Lab Sample ID: 460-266752-2
Date Collected: 10/03/22 09:15
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00019	U	0.00019	0.000045	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1,2,2-Tetrachloroethane	0.00019	U	0.00019	0.000041	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00019	U	0.00019	0.000058	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1,2-Trichloroethane	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1-Dichloroethane	0.00019	U	0.00019	0.000040	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,1-Dichloroethene	0.00019	U	0.00019	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2,3-Trichlorobenzene	0.00019	U	0.00019	0.000035	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2,4-Trichlorobenzene	0.00019	U	0.00019	0.000069	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2,4-Trimethylbenzene	0.00019	U	0.00019	0.000048	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dibromo-3-Chloropropane	0.00019	U	0.00019	0.000089	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dichlorobenzene	0.00019	U	0.00019	0.000070	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dichloroethane	0.00019	U	0.00019	0.000057	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,2-Dichloropropane	0.00019	U	0.00019	0.000082	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,3,5-Trimethylbenzene	0.00019	U	0.00019	0.000061	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00019	U	0.00019	0.000071	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
1,4-Dichlorobenzene	0.00019	U	0.00019	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
2-Butanone (MEK)	0.00097	U	0.00097	0.000071	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
2-Hexanone	0.00097	U	0.00097	0.00033	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
4-Methyl-2-pentanone (MIBK)	0.00097	U	0.00097	0.00030	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Acetone	**0.0071**		0.0012	0.0011	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Benzene	0.00019	U	0.00019	0.000050	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Bromoform	0.00019	U	0.00019	0.000082	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Bromomethane	0.00039	U	0.00039	0.00019	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Carbon disulfide	0.00019	U	0.00019	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Carbon tetrachloride	0.00019	U	0.00019	0.000075	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chlorobenzene	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chlorobromomethane	0.00019	U	0.00019	0.000054	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chlorodibromomethane	0.00019	U	0.00019	0.000038	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chloroethane	0.00019	U	0.00019	0.00010	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chloroform	0.00019	U	0.00019	0.00019	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Chloromethane	0.00019	U	0.00019	0.000084	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
cis-1,2-Dichloroethene	0.00019	U	0.00019	0.000069	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
cis-1,3-Dichloropropene	0.00019	U	0.00019	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Cyclohexane	0.00019	U	0.00019	0.000043	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Dichlorobromomethane	0.00019	U	0.00019	0.000050	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Dichlorodifluoromethane	0.00019	U	0.00019	0.000065	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Ethylbenzene	0.00019	U	0.00019	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Ethylene Dibromide	0.00019	U	0.00019	0.000035	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Isopropylbenzene	0.00019	U	0.00019	0.000055	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methyl acetate	0.00097	U	0.00097	0.00083	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methyl tert-butyl ether	0.00019	U	0.00019	0.000099	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methylcyclohexane	0.00019	U	0.00019	0.000097	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Methylene Chloride	0.00039	U	0.00039	0.00022	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
m-Xylene & p-Xylene	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
n-Butylbenzene	0.00019	U	0.00019	0.000057	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
N-Propylbenzene	0.00019	U	0.00019	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
o-Xylene	0.00019	U	0.00019	0.000038	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
sec-Butylbenzene	0.00019	U	0.00019	0.000056	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Styrene	0.00019	U	0.00019	0.000054	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
tert-Butylbenzene	0.00019	U	0.00019	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Tetrachloroethene	0.00019	U	0.00019	0.000059	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Toluene	0.00019	U	0.00019	0.000045	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
trans-1,2-Dichloroethene	0.00019	U	0.00019	0.000048	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
trans-1,3-Dichloropropene	0.00019	U	0.00019	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Trichloroethene	0.00019	U	0.00019	0.000062	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Trichlorofluoromethane	0.00019	U	0.00019	0.000079	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Vinyl chloride	0.00019	U	0.00019	0.00011	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1
Xylenes, Total	0.00039	U	0.00039	0.000034	mg/Kg	☼	10/04/22 13:28	10/05/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*	*10/04/22 13:28*	*10/05/22 17:39*	*1*
4-Bromofluorobenzene	*101*		*75 - 139*	*10/04/22 13:28*	*10/05/22 17:39*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*10/04/22 13:28*	*10/05/22 17:39*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*10/04/22 13:28*	*10/05/22 17:39*	*1*

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.043	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dimethylphenol	0.34	U	0.34	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,4-Dinitrotoluene	0.069	U	0.069	0.036	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2,6-Dinitrotoluene	0.069	U	0.069	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
3-Nitroaniline	0.34	U	0.34	0.080	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
4-Nitrophenol	0.69	U	0.69	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Acenaphthene	0.34	U	0.34	0.0096	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[a]pyrene	0.034	U	0.034	0.0090	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0066	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Chrysene	0.34	U	0.34	0.0057	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Fluorene	0.34	U	0.34	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachlorobutadiene	0.069	U	0.069	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Pentachlorophenol	0.27	U	0.27	0.069	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Phenanthrene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Phenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1
Pyrene	0.34	U	0.34	0.0084	mg/Kg	☼	10/04/22 18:31	10/05/22 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*10 - 123*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
2-Fluorobiphenyl	*82*		*22 - 122*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
2-Fluorophenol (Surr)	*71*		*18 - 123*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
Nitrobenzene-d5 (Surr)	*70*		*16 - 125*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
Phenol-d5 (Surr)	*68*		*23 - 120*	*10/04/22 18:31*	*10/05/22 06:31*	*1*
Terphenyl-d14 (Surr)	*88*		*25 - 126*	*10/04/22 18:31*	*10/05/22 06:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
alpha-BHC	0.0020	U	0.0020	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
beta-BHC	0.0020	U	0.0020	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
delta-BHC	0.0020	U	0.0020	0.00042	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Dieldrin	0.0020	U	0.0020	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endrin	0.0069	U	0.0069	0.00098	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00064	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 16:51	10/05/22 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:30*	*1*
DCB Decachlorobiphenyl	*75*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:30*	*1*
Tetrachloro-m-xylene	*97*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:30*	*1*
Tetrachloro-m-xylene	*91*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*
DCB Decachlorobiphenyl	*98*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*
Tetrachloro-m-xylene	*100*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*
Tetrachloro-m-xylene	*93*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:12*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2810**		18.9	5.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Antimony	0.94	U	0.94	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Arsenic	**0.61**	**J**	0.94	0.097	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Barium	**23.4**		1.9	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Beryllium	**0.23**	**J**	0.38	0.054	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Cadmium	**0.11**	**J**	0.94	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Calcium	**21600**		94.4	16.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Chromium	**8.3**		1.9	0.86	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Cobalt	**2.9**		1.9	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Copper	**9.5**		1.9	0.35	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Iron	**6500**		56.6	19.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Lead	**4.0**		0.57	0.19	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Magnesium	**12100**		94.4	9.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Manganese	**168**		3.8	0.38	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Nickel	**6.7**		1.9	0.44	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Potassium	**522**		94.4	15.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Selenium	**0.17**	**J**	1.2	0.12	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Silver	0.38	U	0.38	0.084	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Sodium	**201**		94.4	43.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Thallium	**0.069**	**J**	0.38	0.039	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1

Client Sample ID: SB-02_31-33_20221003

Lab Sample ID: 460-266752-2
Date Collected: 10/03/22 09:15
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	9.8		1.9	0.19	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1
Zinc	15.2		7.6	2.9	mg/Kg	☼	10/05/22 09:10	10/05/22 19:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.017	0.0082	mg/Kg	☼	10/05/22 00:06	10/05/22 04:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	2.8		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	97.2		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-03_0-2_20221003

Lab Sample ID: 460-266752-3
Date Collected: 10/03/22 15:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.00023	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.00023	0.000048	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00023	U	0.00023	0.000068	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1,2-Trichloroethane	0.00023	U	0.00023	0.000040	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1-Dichloroethane	0.00023	U	0.00023	0.000046	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,1-Dichloroethene	0.00023	U	0.00023	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2,3-Trichlorobenzene	0.00023	U	0.00023	0.000041	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2,4-Trichlorobenzene	0.00023	U	0.00023	0.000081	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2,4-Trimethylbenzene	0.00023	U	0.00023	0.000055	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dibromo-3-Chloropropane	0.00023	U	0.00023	0.00010	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dichlorobenzene	0.00023	U	0.00023	0.000081	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dichloroethane	0.00023	U	0.00023	0.000067	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,2-Dichloropropane	0.00023	U	0.00023	0.000095	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,3,5-Trimethylbenzene	0.00023	U	0.00023	0.000071	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,3-Dichlorobenzene	0.00023	U	0.00023	0.000082	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
1,4-Dichlorobenzene	0.00023	U	0.00023	0.000051	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
2-Butanone (MEK)	0.0011	U	0.0011	0.000083	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
2-Hexanone	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
4-Methyl-2-pentanone (MIBK)	0.0011	U	0.0011	0.00035	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Acetone	0.0014	U	0.0014	0.0013	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Benzene	0.00023	U	0.00023	0.000058	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Bromoform	0.00023	U	0.00023	0.000096	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Bromomethane	0.00045	U	0.00045	0.00023	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Carbon disulfide	0.00023	U	0.00023	0.000060	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Carbon tetrachloride	0.00023	U	0.00023	0.000087	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chlorobenzene	0.00023	U	0.00023	0.000040	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chlorobromomethane	0.00023	U	0.00023	0.000063	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chlorodibromomethane	0.00023	U	0.00023	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chloroethane	0.00023	U	0.00023	0.00012	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chloroform	0.00023	U	0.00023	0.00022	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Chloromethane	0.00023	U	0.00023	0.000098	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1

Client Sample ID: SB-03_0-2_20221003
Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.00023	U	0.00023	0.000081	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
cis-1,3-Dichloropropene	0.00023	U	0.00023	0.000062	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Cyclohexane	0.00023	U	0.00023	0.000050	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Dichlorobromomethane	0.00023	U	0.00023	0.000058	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Dichlorodifluoromethane	0.00023	U	0.00023	0.000076	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Ethylbenzene	0.00023	U	0.00023	0.000045	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Ethylene Dibromide	0.00023	U	0.00023	0.000041	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Isopropylbenzene	0.00023	U	0.00023	0.000064	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methyl acetate	0.0011	U	0.0011	0.00097	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methyl tert-butyl ether	0.00023	U	0.00023	0.00012	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methylcyclohexane	0.00023	U	0.00023	0.00011	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Methylene Chloride	0.00045	U	0.00045	0.00026	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
m-Xylene & p-Xylene	0.00023	U	0.00023	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
n-Butylbenzene	0.00023	U	0.00023	0.000066	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
N-Propylbenzene	0.00023	U	0.00023	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
o-Xylene	0.00023	U	0.00023	0.000044	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
sec-Butylbenzene	0.00023	U	0.00023	0.000065	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Styrene	0.00023	U	0.00023	0.000063	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
tert-Butylbenzene	0.00023	U	0.00023	0.000062	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Tetrachloroethene	0.00023	U	0.00023	0.000069	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Toluene	0.00023	U	0.00023	0.000053	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
trans-1,2-Dichloroethene	0.00023	U	0.00023	0.000055	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
trans-1,3-Dichloropropene	0.00023	U	0.00023	0.000060	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Trichloroethene	0.00023	U	0.00023	0.000072	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Trichlorofluoromethane	0.00023	U	0.00023	0.000091	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Vinyl chloride	0.00023	U	0.00023	0.00012	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1
Xylenes, Total	0.00045	U	0.00045	0.000039	mg/Kg	☼	10/04/22 13:28	10/05/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 145*	*10/04/22 13:28*	*10/05/22 18:05*	*1*
4-Bromofluorobenzene	*104*		*75 - 139*	*10/04/22 13:28*	*10/05/22 18:05*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*10/04/22 13:28*	*10/05/22 18:05*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*	*10/04/22 13:28*	*10/05/22 18:05*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
1,2,4,5-Tetrachlorobenzene	0.39	U	0.39	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
1,4-Dioxane	0.039	U	0.039	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	0.0070	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,3,4,6-Tetrachlorophenol	0.39	U	0.39	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.050	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dichlorophenol	0.16	U	0.16	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dimethylphenol	0.39	U	0.39	0.046	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,4-Dinitrotoluene	0.079	U	0.079	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2,6-Dinitrotoluene	0.079	U	0.079	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Chloronaphthalene	0.39	U	0.39	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Chlorophenol	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1

Client Sample ID: SB-03_0-2_20221003
Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Methylphenol	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Nitroaniline	0.39	U	0.39	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
2-Nitrophenol	0.39	U	0.39	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
3 & 4 Methylphenol	0.39	U	0.39	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.059	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
3-Nitroaniline	0.39	U	0.39	0.092	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.16	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Bromophenyl phenyl ether	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Chloroaniline	0.39	U	0.39	0.069	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Chlorophenyl phenyl ether	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Methylphenol	0.39	U	0.39	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Nitroaniline	0.39	U	0.39	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
4-Nitrophenol	0.79	U	0.79	0.063	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Acenaphthene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Acenaphthylene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Acetophenone	0.39	U	0.39	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Anthracene	0.39	U	0.39	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Atrazine	0.16	U	0.16	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzaldehyde	0.39	U	0.39	0.064	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[a]anthracene	**0.049**		0.039	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[a]pyrene	**0.041**		0.039	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[b]fluoranthene	**0.057**		0.039	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[g,h,i]perylene	**0.024**	**J**	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Benzo[k]fluoranthene	**0.022**	**J**	0.039	0.0076	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Bis(2-chloroethoxy)methane	0.39	U	0.39	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Bis(2-chloroethyl)ether	0.039	U	0.039	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Bis(2-ethylhexyl) phthalate	0.39	U	0.39	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Butyl benzyl phthalate	0.39	U	0.39	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Caprolactam	0.39	U	0.39	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Carbazole	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Chrysene	**0.046**	**J**	0.39	0.0066	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Dibenzofuran	0.39	U	0.39	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Diethyl phthalate	0.39	U	0.39	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Dimethyl phthalate	0.39	U	0.39	0.088	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Di-n-butyl phthalate	0.39	U	0.39	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Di-n-octyl phthalate	0.39	U	0.39	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Fluoranthene	**0.076**	**J**	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Fluorene	0.39	U	0.39	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachlorobenzene	0.039	U	0.039	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachlorobutadiene	0.079	U	0.079	0.0083	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachlorocyclopentadiene	0.39	U	0.39	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Hexachloroethane	0.039	U	0.039	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Indeno[1,2,3-cd]pyrene	**0.028**	**J**	0.039	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Isophorone	0.16	U	0.16	0.11	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Naphthalene	0.39	U	0.39	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Nitrobenzene	0.039	U	0.039	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1

Client Sample ID: SB-03_0-2_20221003

Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3

Matrix: Solid
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.039	U	0.039	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
N-Nitrosodiphenylamine	0.39	U	0.39	0.032	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Pentachlorophenol	0.31	U	0.31	0.080	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Phenanthrene	**0.035**	**J**	0.39	0.0068	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Phenol	0.39	U	0.39	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1
Pyrene	**0.075**	**J**	0.39	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	67		10 - 123	10/04/22 18:31	10/05/22 06:54	1
2-Fluorobiphenyl	83		22 - 122	10/04/22 18:31	10/05/22 06:54	1
2-Fluorophenol (Surr)	72		18 - 123	10/04/22 18:31	10/05/22 06:54	1
Nitrobenzene-d5 (Surr)	73		16 - 125	10/04/22 18:31	10/05/22 06:54	1
Phenol-d5 (Surr)	69		23 - 120	10/04/22 18:31	10/05/22 06:54	1
Terphenyl-d14 (Surr)	85		25 - 126	10/04/22 18:31	10/05/22 06:54	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0079	U	0.0079	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
4,4'-DDE	0.0079	U	0.0079	0.00093	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
4,4'-DDT	0.0079	U	0.0079	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Aldrin	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
alpha-BHC	0.0023	U	0.0023	0.00080	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
beta-BHC	0.0023	U	0.0023	0.00088	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Chlordane (technical)	0.079	U	0.079	0.019	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
cis-Chlordane	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
delta-BHC	0.0023	U	0.0023	0.00048	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Dieldrin	0.0023	U	0.0023	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endosulfan I	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endosulfan II	0.0079	U	0.0079	0.0020	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endosulfan sulfate	0.0079	U	0.0079	0.00099	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endrin	0.0079	U	0.0079	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endrin aldehyde	0.0079	U	0.0079	0.0019	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Endrin ketone	0.0079	U	0.0079	0.0015	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00073	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Heptachlor	0.0079	U	0.0079	0.00093	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Heptachlor epoxide	0.0079	U	0.0079	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Methoxychlor	0.0079	U	0.0079	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1
Toxaphene	0.079	U	0.079	0.028	mg/Kg	☼	10/04/22 16:51	10/05/22 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	79		43 - 150	10/04/22 16:51	10/05/22 07:43	1
DCB Decachlorobiphenyl	69		43 - 150	10/04/22 16:51	10/05/22 07:43	1
Tetrachloro-m-xylene	89		26 - 137	10/04/22 16:51	10/05/22 07:43	1
Tetrachloro-m-xylene	84		26 - 137	10/04/22 16:51	10/05/22 07:43	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1221	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1232	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1

Client Sample ID: SB-03_0-2_20221003
Date Collected: 10/03/22 15:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-3
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1248	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1254	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1260	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor-1262	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Aroclor 1268	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1
Polychlorinated biphenyls, Total	0.079	U	0.079	0.021	mg/Kg	☼	10/04/22 16:32	10/05/22 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*
DCB Decachlorobiphenyl	*94*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*
Tetrachloro-m-xylene	*91*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:29*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6790**		22.2	6.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Antimony	**0.16**	**J**	1.1	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Arsenic	**2.5**		1.1	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Barium	**62.6**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Beryllium	**0.36**	**J**	0.44	0.063	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Cadmium	**0.21**	**J**	1.1	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Calcium	**32300**		111	19.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Chromium	**16.4**		2.2	1.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Cobalt	**5.0**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Copper	**23.3**		2.2	0.41	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Iron	**11300**		66.6	22.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Lead	**81.7**		0.67	0.22	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Magnesium	**5740**		111	11.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Manganese	**216**		4.4	0.45	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Nickel	**13.5**		2.2	0.52	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Potassium	**1360**		111	18.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Selenium	**0.18**	**J**	1.4	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Silver	0.44	U	0.44	0.099	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Sodium	**309**		111	50.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Thallium	**0.093**	**J**	0.44	0.045	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Vanadium	**20.8**		2.2	0.23	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1
Zinc	**65.1**		8.9	3.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.018	0.0086	mg/Kg	☼	10/05/22 00:06	10/05/22 04:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.98	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**14.9**		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	**85.1**		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-03_31-33_20221003

Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4

Matrix: Solid
Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000046	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000042	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000041	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000091	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000083	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000062	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
2-Butanone (MEK)	0.00099	U	0.00099	0.000073	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
2-Hexanone	0.00099	U	0.00099	0.00034	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
4-Methyl-2-pentanone (MIBK)	0.00099	U	0.00099	0.00031	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Acetone	0.014		0.0012	0.0011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Benzene	0.00020	U	0.00020	0.000051	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Bromoform	0.00020	U	0.00020	0.000084	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Bromomethane	0.00039	U	0.00039	0.00020	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Carbon disulfide	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Carbon tetrachloride	0.00020	U *	0.00020	0.000076	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chlorobenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chlorobromomethane	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chlorodibromomethane	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chloroethane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chloroform	0.00020	U	0.00020	0.00019	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Chloromethane	0.00020	U	0.00020	0.000086	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Cyclohexane	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Dichlorobromomethane	0.00020	U	0.00020	0.000051	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000067	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Ethylbenzene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Ethylene Dibromide	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Isopropylbenzene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methyl acetate	0.00099	U	0.00099	0.00085	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methylcyclohexane	0.00020	U	0.00020	0.000098	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Methylene Chloride	0.00039	U	0.00039	0.00023	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000034	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
n-Butylbenzene	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
N-Propylbenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
o-Xylene	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
sec-Butylbenzene	0.00020	U *	0.00020	0.000057	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Styrene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1

Client Sample ID: SB-03_31-33_20221003
Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4
Matrix: Solid
Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00020	U *	0.00020	0.000054	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Tetrachloroethene	0.00020	U	0.00020	0.000060	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Toluene	0.00020	U	0.00020	0.000046	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000049	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Trichloroethene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000080	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1
Xylenes, Total	0.00039	U	0.00039	0.000034	mg/Kg	☼	10/04/22 13:29	10/06/22 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 145*	*10/04/22 13:29*	*10/06/22 01:11*	*1*
4-Bromofluorobenzene	*93*		*75 - 139*	*10/04/22 13:29*	*10/06/22 01:11*	*1*
Dibromofluoromethane (Surr)	*87*		*73 - 139*	*10/04/22 13:29*	*10/06/22 01:11*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/04/22 13:29*	*10/06/22 01:11*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
1,2,4,5-Tetrachlorobenzene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
1,4-Dioxane	0.035	U	0.035	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,2'-oxybis[1-chloropropane]	0.35	U	0.35	0.0063	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,3,4,6-Tetrachlorophenol	0.35	U	0.35	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.036	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dimethylphenol	0.35	U	0.35	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dinitrophenol	0.28	U	0.28	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,4-Dinitrotoluene	0.071	U	0.071	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2,6-Dinitrotoluene	0.071	U	0.071	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Chloronaphthalene	0.35	U	0.35	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Chlorophenol	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Methylnaphthalene	0.35	U	0.35	0.0098	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Methylphenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Nitroaniline	0.35	U	0.35	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
2-Nitrophenol	0.35	U	0.35	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
3 & 4 Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
3-Nitroaniline	0.35	U	0.35	0.083	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4,6-Dinitro-2-methylphenol	0.28	U	0.28	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Bromophenyl phenyl ether	0.35	U	0.35	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Chloroaniline	0.35	U	0.35	0.062	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Chlorophenyl phenyl ether	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Methylphenol	0.35	U	0.35	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Nitroaniline	0.35	U	0.35	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
4-Nitrophenol	0.71	U	0.71	0.057	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Acenaphthene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Acenaphthylene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Acetophenone	0.35	U	0.35	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1

Client Sample ID: SB-03_31-33_20221003
Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4
Matrix: Solid
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Atrazine	0.14	U	0.14	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzaldehyde	0.35	U	0.35	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[a]anthracene	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[a]pyrene	0.035	U	0.035	0.0093	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[b]fluoranthene	0.035	U	0.035	0.0090	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[g,h,i]perylene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Benzo[k]fluoranthene	0.035	U	0.035	0.0069	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Bis(2-chloroethoxy)methane	0.35	U	0.35	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Bis(2-chloroethyl)ether	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Bis(2-ethylhexyl) phthalate	0.35	U	0.35	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Butyl benzyl phthalate	0.35	U	0.35	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Caprolactam	0.35	U	0.35	0.054	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Carbazole	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Chrysene	0.35	U	0.35	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Dibenzofuran	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Diethyl phthalate	0.35	U	0.35	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Dimethyl phthalate	0.35	U	0.35	0.079	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Di-n-butyl phthalate	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Di-n-octyl phthalate	0.35	U	0.35	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Fluoranthene	0.35	U	0.35	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Fluorene	0.35	U	0.35	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachlorobenzene	0.035	U	0.035	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachlorobutadiene	0.071	U	0.071	0.0074	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachlorocyclopentadiene	0.35	U	0.35	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Hexachloroethane	0.035	U	0.035	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Indeno[1,2,3-cd]pyrene	0.035	U	0.035	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Isophorone	0.14	U	0.14	0.10	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Naphthalene	0.35	U	0.35	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Nitrobenzene	0.035	U	0.035	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
N-Nitrosodi-n-propylamine	0.035	U	0.035	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
N-Nitrosodiphenylamine	0.35	U	0.35	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Pentachlorophenol	0.28	U	0.28	0.072	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Phenanthrene	0.35	U	0.35	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Phenol	0.35	U	0.35	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1
Pyrene	0.35	U	0.35	0.0087	mg/Kg	☼	10/04/22 18:31	10/05/22 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*10 - 123*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
2-Fluorobiphenyl	*80*		*22 - 122*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 123*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
Nitrobenzene-d5 (Surr)	*70*		*16 - 125*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
Phenol-d5 (Surr)	*69*		*23 - 120*	*10/04/22 18:31*	*10/05/22 05:22*	*1*
Terphenyl-d14 (Surr)	*82*		*25 - 126*	*10/04/22 18:31*	*10/05/22 05:22*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0071	U	0.0071	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
4,4'-DDE	0.0071	U	0.0071	0.00083	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1

Client Sample ID: SB-03_31-33_20221003

Date Collected: 10/03/22 15:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-4

Matrix: Solid
Percent Solids: 94.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0071	U	0.0071	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Aldrin	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
alpha-BHC	0.0021	U	0.0021	0.00072	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
beta-BHC	0.0021	U	0.0021	0.00079	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Chlordane (technical)	0.071	U	0.071	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
cis-Chlordane	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
delta-BHC	0.0021	U	0.0021	0.00043	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Dieldrin	0.0021	U	0.0021	0.00092	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endosulfan I	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endosulfan II	0.0071	U	0.0071	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endosulfan sulfate	0.0071	U	0.0071	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endrin	0.0071	U	0.0071	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endrin aldehyde	0.0071	U	0.0071	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Endrin ketone	0.0071	U	0.0071	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00065	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Heptachlor	0.0071	U	0.0071	0.00083	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Heptachlor epoxide	0.0071	U	0.0071	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Methoxychlor	0.0071	U	0.0071	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1
Toxaphene	0.071	U	0.071	0.026	mg/Kg	☼	10/04/22 16:51	10/05/22 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:55*	*1*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/04/22 16:51*	*10/05/22 07:55*	*1*
Tetrachloro-m-xylene	*91*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:55*	*1*
Tetrachloro-m-xylene	*85*		*26 - 137*	*10/04/22 16:51*	*10/05/22 07:55*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1221	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1232	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1242	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1248	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1254	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1260	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor-1262	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Aroclor 1268	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1
Polychlorinated biphenyls, Total	0.071	U	0.071	0.019	mg/Kg	☼	10/04/22 16:32	10/05/22 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*
Tetrachloro-m-xylene	*85*		*42 - 150*	*10/04/22 16:32*	*10/05/22 11:45*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3030**		20.0	5.5	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Arsenic	**0.86**	**J**	1.0	0.10	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1

Client Sample ID: SB-03_31-33_20221003

Lab Sample ID: 460-266752-4

Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 94.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	19.1		2.0	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Beryllium	0.16	J	0.40	0.057	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Calcium	1560		99.8	17.7	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Chromium	10.1		2.0	0.91	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Cobalt	2.6		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Copper	8.2		2.0	0.37	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Iron	6720		59.9	20.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Lead	2.7		0.60	0.20	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Magnesium	1940		99.8	10.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Manganese	177		4.0	0.40	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Nickel	6.4		2.0	0.47	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Potassium	510		99.8	16.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Selenium	1.2	U	1.2	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Silver	0.40	U	0.40	0.089	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Sodium	161		99.8	45.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Thallium	0.40	U	0.40	0.041	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Vanadium	8.5		2.0	0.21	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1
Zinc	14.4		8.0	3.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.017	0.0081	mg/Kg	☼	10/05/22 00:06	10/05/22 04:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.92	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	5.5		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	94.5		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-04_0-2_20221003

Lab Sample ID: 460-266752-5

Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00021	U	0.00021	0.000050	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00021	0.000046	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00021	U	0.00021	0.000064	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1,2-Trichloroethane	0.00021	U	0.00021	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1-Dichloroethane	0.00021	U	0.00021	0.000044	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,1-Dichloroethene	0.00021	U	0.00021	0.000048	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2,3-Trichlorobenzene	0.00021	U	0.00021	0.000039	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2,4-Trichlorobenzene	0.00021	U	0.00021	0.000077	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2,4-Trimethylbenzene	0.00021	U	0.00021	0.000053	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dibromo-3-Chloropropane	0.00021	U	0.00021	0.000098	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dichlorobenzene	0.00021	U	0.00021	0.000077	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dichloroethane	0.00021	U	0.00021	0.000063	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,2-Dichloropropane	0.00021	U	0.00021	0.000090	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,3,5-Trimethylbenzene	0.00021	U	0.00021	0.000067	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1

Client Sample ID: SB-04_0-2_20221003
Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00021	U	0.00021	0.000078	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
1,4-Dichlorobenzene	0.00021	U	0.00021	0.000048	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
2-Butanone (MEK)	0.0011	U	0.0011	0.000079	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
2-Hexanone	0.0011	U	0.0011	0.00037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
4-Methyl-2-pentanone (MIBK)	0.0011	U	0.0011	0.00033	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Acetone	0.0013	U	0.0013	0.0012	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Benzene	0.00021	U	0.00021	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Bromoform	0.00021	U	0.00021	0.000091	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Bromomethane	0.00043	U	0.00043	0.00021	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Carbon disulfide	0.00021	U	0.00021	0.000057	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Carbon tetrachloride	0.00021	U *	0.00021	0.000083	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chlorobenzene	0.00021	U	0.00021	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chlorobromomethane	0.00021	U	0.00021	0.000060	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chlorodibromomethane	0.00021	U	0.00021	0.000041	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chloroethane	0.00021	U	0.00021	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chloroform	0.00021	U	0.00021	0.00021	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Chloromethane	0.00021	U	0.00021	0.000093	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
cis-1,2-Dichloroethene	0.00021	U	0.00021	0.000077	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
cis-1,3-Dichloropropene	0.00021	U	0.00021	0.000058	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Cyclohexane	0.00021	U	0.00021	0.000047	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Dichlorobromomethane	0.00021	U	0.00021	0.000055	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Dichlorodifluoromethane	0.00021	U	0.00021	0.000072	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Ethylbenzene	0.00021	U	0.00021	0.000043	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Ethylene Dibromide	0.00021	U	0.00021	0.000038	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Isopropylbenzene	0.00021	U	0.00021	0.000061	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methyl acetate	0.0011	U	0.0011	0.00092	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methyl tert-butyl ether	0.00021	U	0.00021	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methylcyclohexane	0.00021	U	0.00021	0.00011	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Methylene Chloride	0.00043	U	0.00043	0.00024	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
m-Xylene & p-Xylene	0.00021	U	0.00021	0.000037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
n-Butylbenzene	0.00021	U	0.00021	0.000063	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
N-Propylbenzene	0.00021	U	0.00021	0.000037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
o-Xylene	0.00021	U	0.00021	0.000041	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
sec-Butylbenzene	0.00021	U *	0.00021	0.000062	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Styrene	0.00021	U	0.00021	0.000059	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
tert-Butylbenzene	0.00021	U *	0.00021	0.000059	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Tetrachloroethene	0.00021	U	0.00021	0.000065	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Toluene	0.00021	U	0.00021	0.000050	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
trans-1,2-Dichloroethene	0.00021	U	0.00021	0.000053	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
trans-1,3-Dichloropropene	0.00021	U	0.00021	0.000057	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Trichloroethene	0.00021	U	0.00021	0.000069	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Trichlorofluoromethane	0.00021	U	0.00021	0.000087	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Vinyl chloride	0.00021	U	0.00021	0.00012	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1
Xylenes, Total	0.00043	U	0.00043	0.000037	mg/Kg	☼	10/04/22 13:29	10/06/22 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 145*	*10/04/22 13:29*	*10/06/22 01:35*	*1*
4-Bromofluorobenzene	*111*		*75 - 139*	*10/04/22 13:29*	*10/06/22 01:35*	*1*
Dibromofluoromethane (Surr)	*106*		*73 - 139*	*10/04/22 13:29*	*10/06/22 01:35*	*1*
Toluene-d8 (Surr)	*118*		*80 - 120*	*10/04/22 13:29*	*10/06/22 01:35*	*1*

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-04_0-2_20221003
Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.047	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dichlorophenol	0.15	U	0.15	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dimethylphenol	0.37	U	0.37	0.044	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,4-Dinitrotoluene	0.075	U	0.075	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2,6-Dinitrotoluene	0.075	U	0.075	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Chlorophenol	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Methylnaphthalene	0.37	U	0.37	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Methylphenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Nitroaniline	0.37	U	0.37	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
2-Nitrophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
3 & 4 Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
3-Nitroaniline	0.37	U	0.37	0.087	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.15	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Chloroaniline	0.37	U	0.37	0.065	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Nitroaniline	0.37	U	0.37	0.042	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
4-Nitrophenol	0.75	U	0.75	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Acenaphthene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Acenaphthylene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Acetophenone	0.37	U	0.37	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Anthracene	**0.025**	**J**	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Atrazine	0.15	U	0.15	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzaldehyde	0.37	U	0.37	0.061	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[a]anthracene	**0.092**		0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[a]pyrene	**0.080**		0.037	0.0098	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[b]fluoranthene	**0.11**		0.037	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[g,h,i]perylene	**0.042**	**J**	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Benzo[k]fluoranthene	**0.036**	**J**	0.037	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Bis(2-ethylhexyl) phthalate	**0.080**	**J**	0.37	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Caprolactam	0.37	U	0.37	0.057	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Carbazole	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Chrysene	**0.088**	**J**	0.37	0.0062	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Dibenzofuran	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1

Client Sample ID: SB-04_0-2_20221003
Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Dimethyl phthalate	0.37	U	0.37	0.084	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Di-n-butyl phthalate	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Fluoranthene	**0.17**	**J**	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Fluorene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachlorobenzene	0.037	U	0.037	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachlorobutadiene	0.075	U	0.075	0.0078	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.032	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Hexachloroethane	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Indeno[1,2,3-cd]pyrene	**0.048**		0.037	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Isophorone	0.15	U	0.15	0.11	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Naphthalene	0.37	U	0.37	0.0064	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Nitrobenzene	0.037	U	0.037	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Phenanthrene	**0.10**	**J**	0.37	0.0065	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Phenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1
Pyrene	**0.17**	**J**	0.37	0.0092	mg/Kg	☼	10/04/22 18:31	10/05/22 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*10 - 123*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
2-Fluorobiphenyl	*81*		*22 - 122*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 123*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
Nitrobenzene-d5 (Surr)	*71*		*16 - 125*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
Phenol-d5 (Surr)	*69*		*23 - 120*	*10/04/22 18:31*	*10/05/22 07:17*	*1*
Terphenyl-d14 (Surr)	*84*		*25 - 126*	*10/04/22 18:31*	*10/05/22 07:17*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0075	U	0.0075	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
4,4'-DDE	0.0075	U	0.0075	0.00088	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
4,4'-DDT	0.0075	U	0.0075	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Aldrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
alpha-BHC	0.0022	U	0.0022	0.00076	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
beta-BHC	0.0022	U	0.0022	0.00084	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Chlordane (technical)	0.075	U	0.075	0.018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
cis-Chlordane	0.0075	U	0.0075	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
delta-BHC	0.0022	U	0.0022	0.00046	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Dieldrin	0.0022	U	0.0022	0.00097	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endosulfan I	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endosulfan II	0.0075	U	0.0075	0.0019	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endosulfan sulfate	0.0075	U	0.0075	0.00094	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endrin aldehyde	0.0075	U	0.0075	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Endrin ketone	0.0075	U	0.0075	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00069	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Heptachlor	0.0075	U	0.0075	0.00088	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Heptachlor epoxide	0.0075	U	0.0075	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1

Client Sample ID: SB-04_0-2_20221003

Date Collected: 10/03/22 13:00
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-5

Matrix: Solid
Percent Solids: 89.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0075	U	0.0075	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1
Toxaphene	0.075	U	0.075	0.027	mg/Kg	☼	10/04/22 16:51	10/05/22 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:07*	*1*
DCB Decachlorobiphenyl	*64*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:07*	*1*
Tetrachloro-m-xylene	*83*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:07*	*1*
Tetrachloro-m-xylene	*74*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:07*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1221	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1232	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1242	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1248	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1254	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1260	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor-1262	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Aroclor 1268	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1
Polychlorinated biphenyls, Total	0.075	U	0.075	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*
Tetrachloro-m-xylene	*82*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:02*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9180**		21.7	6.0	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Antimony	**0.49**	**J**	1.1	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Arsenic	**4.0**		1.1	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Barium	**78.8**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Beryllium	**0.63**		0.43	0.062	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Cadmium	**0.43**	**J**	1.1	0.12	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Calcium	**9950**		109	19.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Chromium	**19.1**		2.2	0.99	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Cobalt	**9.6**		2.2	0.16	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Copper	**34.8**		2.2	0.40	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Iron	**20700**		65.1	21.9	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Lead	**80.0**		0.65	0.22	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Magnesium	**4900**		109	11.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Manganese	**689**		4.3	0.44	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Nickel	**20.7**		2.2	0.51	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Potassium	**2720**		109	17.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Selenium	**0.35**	**J**	1.4	0.14	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Silver	0.43	U	0.43	0.097	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Sodium	**301**		109	49.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Thallium	**0.21**	**J**	0.43	0.045	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1

Client Sample ID: SB-04_0-2_20221003

Lab Sample ID: 460-266752-5
Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 89.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**31.6**		2.2	0.22	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1
Zinc	**107**		8.7	3.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.59**		0.017	0.0080	mg/Kg	☼	10/05/22 00:06	10/05/22 04:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.94	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**10.6**		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	**89.4**		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-04_32-34_20221003

Lab Sample ID: 460-266752-6
Date Collected: 10/03/22 13:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000042	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000040	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000048	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000090	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000083	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000061	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000071	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000044	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
2-Butanone (MEK)	0.00098	U	0.00098	0.000072	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
2-Hexanone	0.00098	U	0.00098	0.00033	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
4-Methyl-2-pentanone (MIBK)	0.00098	U	0.00098	0.00030	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Acetone	0.0012	U	0.0012	0.0011	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Benzene	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Bromoform	0.00020	U	0.00020	0.000083	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Bromomethane	0.00039	U	0.00039	0.00020	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Carbon disulfide	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Carbon tetrachloride	0.00020	U *	0.00020	0.000075	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chlorobenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chlorobromomethane	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chlorodibromomethane	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chloroethane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chloroform	0.00020	U	0.00020	0.00019	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Chloromethane	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-04_32-34_20221003
Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6
Matrix: Solid
Percent Solids: 97.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000053	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Cyclohexane	0.00020	U	0.00020	0.000043	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Dichlorobromomethane	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000066	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Ethylbenzene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Ethylene Dibromide	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Isopropylbenzene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methyl acetate	0.00098	U	0.00098	0.00084	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methylcyclohexane	0.00020	U	0.00020	0.000097	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Methylene Chloride	0.00039	U	0.00039	0.00022	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000034	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
n-Butylbenzene	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
N-Propylbenzene	0.00020	U	0.00020	0.000034	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
o-Xylene	0.00020	U	0.00020	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
sec-Butylbenzene	0.00020	U *	0.00020	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Styrene	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
tert-Butylbenzene	0.00020	U *	0.00020	0.000054	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Tetrachloroethene	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Toluene	0.00020	U	0.00020	0.000046	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000048	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Trichloroethene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000079	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1
Xylenes, Total	0.00039	U	0.00039	0.000034	mg/Kg	☼	10/04/22 13:30	10/06/22 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 145*	*10/04/22 13:30*	*10/06/22 01:59*	*1*
4-Bromofluorobenzene	*102*		*75 - 139*	*10/04/22 13:30*	*10/06/22 01:59*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*	*10/04/22 13:30*	*10/06/22 01:59*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*	*10/04/22 13:30*	*10/06/22 01:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0062	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1

Client Sample ID: SB-04_32-34_20221003
Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6
Matrix: Solid
Percent Solids: 97.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
4-Nitrophenol	0.69	U	0.69	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Acenaphthene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[a]pyrene	0.034	U	0.034	0.0091	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Chrysene	0.34	U	0.34	0.0058	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Fluorene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachlorobutadiene	0.069	U	0.069	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1

Client Sample ID: SB-04_32-34_20221003

Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6

Matrix: Solid
Percent Solids: 97.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Pentachlorophenol	0.27	U	0.27	0.070	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Phenanthrene	0.34	U	0.34	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Phenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1
Pyrene	0.34	U	0.34	0.0085	mg/Kg	☼	10/04/22 18:31	10/05/22 07:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	67		10 - 123	10/04/22 18:31	10/05/22 07:40	1
2-Fluorobiphenyl	81		22 - 122	10/04/22 18:31	10/05/22 07:40	1
2-Fluorophenol (Surr)	72		18 - 123	10/04/22 18:31	10/05/22 07:40	1
Nitrobenzene-d5 (Surr)	70		16 - 125	10/04/22 18:31	10/05/22 07:40	1
Phenol-d5 (Surr)	68		23 - 120	10/04/22 18:31	10/05/22 07:40	1
Terphenyl-d14 (Surr)	85		25 - 126	10/04/22 18:31	10/05/22 07:40	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
beta-BHC	0.0021	U	0.0021	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Dieldrin	0.0021	U	0.0021	0.00090	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 16:51	10/05/22 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	82		43 - 150	10/04/22 16:51	10/05/22 08:19	1
DCB Decachlorobiphenyl	78		43 - 150	10/04/22 16:51	10/05/22 08:19	1
Tetrachloro-m-xylene	95		26 - 137	10/04/22 16:51	10/05/22 08:19	1
Tetrachloro-m-xylene	91		26 - 137	10/04/22 16:51	10/05/22 08:19	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1

Client Sample ID: SB-04_32-34_20221003
Date Collected: 10/03/22 13:05
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-6
Matrix: Solid
Percent Solids: 97.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*
DCB Decachlorobiphenyl	*88*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*
Tetrachloro-m-xylene	*84*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*
Tetrachloro-m-xylene	*81*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:19*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4170**		20.2	5.6	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Arsenic	**1.3**		1.0	0.10	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Barium	**35.4**		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Beryllium	**0.26**	**J**	0.40	0.058	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Calcium	**1230**		101	17.9	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Chromium	**19.3**		2.0	0.92	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Cobalt	**4.6**		2.0	0.15	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Copper	**18.3**		2.0	0.37	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Iron	**10400**		60.7	20.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Lead	**6.1**		0.61	0.20	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Magnesium	**2050**		101	10.3	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Manganese	**268**		4.0	0.41	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Nickel	**10.2**		2.0	0.48	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Potassium	**826**		101	16.4	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Selenium	1.3	U	1.3	0.13	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Silver	0.40	U	0.40	0.090	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Sodium	**199**		101	46.2	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Thallium	**0.070**	**J**	0.40	0.041	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Vanadium	**15.3**		2.0	0.21	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1
Zinc	**27.3**		8.1	3.1	mg/Kg	☼	10/05/22 09:10	10/05/22 19:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.0083	mg/Kg	☼	10/05/22 00:06	10/05/22 04:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.90	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**3.0**		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	**97.0**		1.0	1.0	%			10/05/22 09:25	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-07_0-2_20221003
Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7
Matrix: Solid
Percent Solids: 88.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00022	U	0.00022	0.000050	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.00022	0.000046	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00022	U	0.00022	0.000065	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1,2-Trichloroethane	0.00022	U	0.00022	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1-Dichloroethane	0.00022	U	0.00022	0.000045	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,1-Dichloroethene	0.00022	U	0.00022	0.000049	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2,3-Trichlorobenzene	0.00022	U	0.00022	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2,4-Trichlorobenzene	0.00022	U	0.00022	0.000078	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2,4-Trimethylbenzene	0.00022	U	0.00022	0.000053	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dibromo-3-Chloropropane	0.00022	U	0.00022	0.00010	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dichlorobenzene	0.00022	U	0.00022	0.000078	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dichloroethane	0.00022	U	0.00022	0.000064	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,2-Dichloropropane	0.00022	U	0.00022	0.000092	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,3,5-Trimethylbenzene	0.00022	U	0.00022	0.000068	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,3-Dichlorobenzene	0.00022	U	0.00022	0.000079	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
1,4-Dichlorobenzene	0.00022	U	0.00022	0.000049	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
2-Butanone (MEK)	0.0011	U	0.0011	0.000080	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
2-Hexanone	0.0011	U	0.0011	0.00037	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
4-Methyl-2-pentanone (MIBK)	0.0011	U	0.0011	0.00034	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Acetone	**0.010**		0.0013	0.0012	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Benzene	0.00022	U	0.00022	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Bromoform	0.00022	U	0.00022	0.000092	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Bromomethane	0.00043	U	0.00043	0.00022	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Carbon disulfide	0.00022	U	0.00022	0.000058	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Carbon tetrachloride	0.00022	U *	0.00022	0.000084	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chlorobenzene	0.00022	U	0.00022	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chlorobromomethane	0.00022	U	0.00022	0.000061	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chlorodibromomethane	0.00022	U	0.00022	0.000042	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chloroethane	0.00022	U	0.00022	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chloroform	0.00022	U	0.00022	0.00021	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Chloromethane	0.00022	U	0.00022	0.000094	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
cis-1,2-Dichloroethene	0.00022	U	0.00022	0.000078	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
cis-1,3-Dichloropropene	0.00022	U	0.00022	0.000059	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Cyclohexane	0.00022	U	0.00022	0.000048	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Dichlorobromomethane	0.00022	U	0.00022	0.000056	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Dichlorodifluoromethane	0.00022	U	0.00022	0.000073	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Ethylbenzene	0.00022	U	0.00022	0.000043	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Ethylene Dibromide	0.00022	U	0.00022	0.000039	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Isopropylbenzene	0.00022	U	0.00022	0.000062	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methyl acetate	0.0011	U	0.0011	0.00093	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methyl tert-butyl ether	0.00022	U	0.00022	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methylcyclohexane	0.00022	U	0.00022	0.00011	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Methylene Chloride	0.00043	U	0.00043	0.00025	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
m-Xylene & p-Xylene	0.00022	U	0.00022	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
n-Butylbenzene	0.00022	U	0.00022	0.000064	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
N-Propylbenzene	0.00022	U	0.00022	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
o-Xylene	0.00022	U	0.00022	0.000042	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
sec-Butylbenzene	0.00022	U *	0.00022	0.000062	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Styrene	0.00022	U	0.00022	0.000060	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1

Client Sample ID: SB-07_0-2_20221003
Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7
Matrix: Solid
Percent Solids: 88.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00022	U *	0.00022	0.000060	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Tetrachloroethene	**0.00024**		0.00022	0.000066	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Toluene	0.00022	U	0.00022	0.000051	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
trans-1,2-Dichloroethene	0.00022	U	0.00022	0.000053	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
trans-1,3-Dichloropropene	0.00022	U	0.00022	0.000058	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Trichloroethene	0.00022	U	0.00022	0.000070	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Trichlorofluoromethane	0.00022	U	0.00022	0.000088	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Vinyl chloride	0.00022	U	0.00022	0.00012	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1
Xylenes, Total	0.00043	U	0.00043	0.000038	mg/Kg	☼	10/04/22 13:30	10/06/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 145*	*10/04/22 13:30*	*10/06/22 02:24*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*	*10/04/22 13:30*	*10/06/22 02:24*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 139*	*10/04/22 13:30*	*10/06/22 02:24*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/04/22 13:30*	*10/06/22 02:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
1,4-Dioxane	0.037	U	0.037	0.033	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0068	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.038	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.048	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dichlorophenol	0.15	U	0.15	0.024	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dimethylphenol	0.37	U	0.37	0.045	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,4-Dinitrotoluene	0.076	U	0.076	0.040	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2,6-Dinitrotoluene	0.076	U	0.076	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Chlorophenol	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Methylnaphthalene	0.37	U	0.37	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Methylphenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Nitroaniline	0.37	U	0.37	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
2-Nitrophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
3 & 4 Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
3-Nitroaniline	0.37	U	0.37	0.089	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.15	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Chloroaniline	0.37	U	0.37	0.066	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Nitroaniline	0.37	U	0.37	0.043	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
4-Nitrophenol	0.76	U	0.76	0.061	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Acenaphthene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Acenaphthylene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Acetophenone	0.37	U	0.37	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1

Client Sample ID: SB-07_0-2_20221003
Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7
Matrix: Solid
Percent Solids: 88.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Atrazine	0.15	U	0.15	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzaldehyde	0.37	U	0.37	0.062	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[a]anthracene	**0.061**		0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[a]pyrene	**0.056**		0.037	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[b]fluoranthene	**0.083**		0.037	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[g,h,i]perylene	**0.029**	**J**	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Benzo[k]fluoranthene	**0.035**	**J**	0.037	0.0073	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.029	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Bis(2-ethylhexyl) phthalate	**0.022**	**J**	0.37	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Caprolactam	0.37	U	0.37	0.058	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Carbazole	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Chrysene	**0.062**	**J**	0.37	0.0063	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Dibenzofuran	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Diethyl phthalate	0.37	U	0.37	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Dimethyl phthalate	0.37	U	0.37	0.085	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Di-n-butyl phthalate	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Fluoranthene	**0.094**	**J**	0.37	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Fluorene	0.37	U	0.37	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachlorobenzene	0.037	U	0.037	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachlorobutadiene	0.076	U	0.076	0.0079	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Hexachloroethane	0.037	U	0.037	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Indeno[1,2,3-cd]pyrene	**0.034**	**J**	0.037	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Isophorone	0.15	U	0.15	0.11	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Naphthalene	0.37	U	0.37	0.0064	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Nitrobenzene	0.037	U	0.037	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.027	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.031	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Phenanthrene	**0.039**	**J**	0.37	0.0066	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Phenol	0.37	U	0.37	0.014	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1
Pyrene	**0.093**	**J**	0.37	0.0093	mg/Kg	☼	10/04/22 18:31	10/05/22 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 123*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
2-Fluorobiphenyl	*81*		*22 - 122*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 123*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
Nitrobenzene-d5 (Surr)	*71*		*16 - 125*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
Phenol-d5 (Surr)	*67*		*23 - 120*	*10/04/22 18:31*	*10/05/22 08:03*	*1*
Terphenyl-d14 (Surr)	*81*		*25 - 126*	*10/04/22 18:31*	*10/05/22 08:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0076	U	0.0076	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
4,4'-DDE	0.0076	U	0.0076	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1

Client Sample ID: SB-07_0-2_20221003

Date Collected: 10/03/22 10:40
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-7

Matrix: Solid
Percent Solids: 88.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0076	U	0.0076	0.0014	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Aldrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
alpha-BHC	0.0023	U	0.0023	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
beta-BHC	0.0023	U	0.0023	0.00085	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Chlordane (technical)	0.076	U	0.076	0.018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
cis-Chlordane	0.0076	U	0.0076	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
delta-BHC	0.0023	U	0.0023	0.00046	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Dieldrin	0.0023	U	0.0023	0.00098	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endosulfan I	0.0076	U	0.0076	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endosulfan II	0.0076	U	0.0076	0.0019	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endosulfan sulfate	0.0076	U	0.0076	0.00095	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endrin aldehyde	0.0076	U	0.0076	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Endrin ketone	0.0076	U	0.0076	0.0015	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Heptachlor	0.0076	U	0.0076	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Heptachlor epoxide	0.0076	U	0.0076	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Methoxychlor	0.0076	U	0.0076	0.0017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1
Toxaphene	0.076	U	0.076	0.027	mg/Kg	☼	10/04/22 16:51	10/05/22 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:32*	*1*
DCB Decachlorobiphenyl	*65*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:32*	*1*
Tetrachloro-m-xylene	*89*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:32*	*1*
Tetrachloro-m-xylene	*81*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:32*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1221	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1232	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1242	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1248	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1254	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1260	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor-1262	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Aroclor 1268	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1
Polychlorinated biphenyls, Total	0.076	U	0.076	0.020	mg/Kg	☼	10/04/22 16:32	10/05/22 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*
DCB Decachlorobiphenyl	*85*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*
Tetrachloro-m-xylene	*85*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*
Tetrachloro-m-xylene	*81*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:36*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5980**		21.0	5.8	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Antimony	**0.20**	**J**	1.0	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Arsenic	**3.9**		1.0	0.11	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1

Client Sample ID: SB-07_0-2_20221003

Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 88.3

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	66.6		2.1	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Beryllium	0.31	J	0.42	0.060	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Cadmium	0.33	J	1.0	0.12	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Calcium	27200		105	18.6	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Chromium	15.1		2.1	0.95	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Cobalt	5.4		2.1	0.16	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Copper	39.8		2.1	0.39	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Iron	13300		62.9	21.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Lead	131		0.63	0.21	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Magnesium	11900		105	10.7	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Manganese	274		4.2	0.42	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Nickel	16.8		2.1	0.49	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Potassium	1220		105	17.0	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Selenium	0.19	J	1.3	0.13	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Silver	0.11	J	0.42	0.093	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Sodium	402		105	47.9	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Thallium	0.11	J	0.42	0.043	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Vanadium	32.6		2.1	0.22	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1
Zinc	109		8.4	3.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0082	mg/Kg	☼	10/05/22 00:21	10/05/22 05:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.3	U	2.3	0.98	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	11.7		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	88.3		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00020	0.000043	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00020	U	0.00020	0.000061	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1,2-Trichloroethane	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1-Dichloroethane	0.00020	U	0.00020	0.000042	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,1-Dichloroethene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2,3-Trichlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2,4-Trichlorobenzene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2,4-Trimethylbenzene	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dibromo-3-Chloropropane	0.00020	U	0.00020	0.000093	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dichlorobenzene	0.00020	U	0.00020	0.000073	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dichloroethane	0.00020	U	0.00020	0.000060	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,2-Dichloropropane	0.00020	U	0.00020	0.000085	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,3,5-Trimethylbenzene	0.00020	U	0.00020	0.000063	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00020	U	0.00020	0.000074	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
1,4-Dichlorobenzene	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
2-Butanone (MEK)	0.0010	U	0.0010	0.000074	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
2-Hexanone	0.0010	U	0.0010	0.00034	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
4-Methyl-2-pentanone (MIBK)	0.0010	U	0.0010	0.00031	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Acetone	**0.031**		0.0012	0.0012	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Benzene	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Bromoform	0.00020	U *	0.00020	0.000086	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Bromomethane	0.00040	U	0.00040	0.00020	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Carbon disulfide	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Carbon tetrachloride	0.00020	U	0.00020	0.000078	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chlorobenzene	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chlorobromomethane	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chlorodibromomethane	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chloroethane	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chloroform	0.00020	U	0.00020	0.00020	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Chloromethane	0.00020	U	0.00020	0.000088	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
cis-1,2-Dichloroethene	0.00020	U	0.00020	0.000072	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
cis-1,3-Dichloropropene	0.00020	U	0.00020	0.000055	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Cyclohexane	0.00020	U	0.00020	0.000045	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Dichlorobromomethane	0.00020	U	0.00020	0.000052	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Dichlorodifluoromethane	0.00020	U	0.00020	0.000068	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Ethylbenzene	0.00020	U	0.00020	0.000040	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Ethylene Dibromide	0.00020	U	0.00020	0.000036	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Isopropylbenzene	0.00020	U	0.00020	0.000057	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methyl acetate	0.0010	U	0.0010	0.00087	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methyl tert-butyl ether	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methylcyclohexane	0.00020	U	0.00020	0.00010	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Methylene Chloride	0.00040	U	0.00040	0.00023	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
m-Xylene & p-Xylene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
n-Butylbenzene	0.00020	U	0.00020	0.000059	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
N-Propylbenzene	0.00020	U	0.00020	0.000035	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
o-Xylene	0.00020	U	0.00020	0.000039	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
sec-Butylbenzene	0.00020	U	0.00020	0.000058	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Styrene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
tert-Butylbenzene	0.00020	U	0.00020	0.000056	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Tetrachloroethene	**0.00024**		0.00020	0.000061	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Toluene	0.00020	U	0.00020	0.000047	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
trans-1,2-Dichloroethene	0.00020	U	0.00020	0.000050	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
trans-1,3-Dichloropropene	0.00020	U	0.00020	0.000054	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Trichloroethene	0.00020	U	0.00020	0.000065	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Trichlorofluoromethane	0.00020	U	0.00020	0.000082	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Vinyl chloride	0.00020	U	0.00020	0.00011	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1
Xylenes, Total	0.00040	U	0.00040	0.000035	mg/Kg	☼	10/04/22 13:31	10/06/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*	*10/04/22 13:31*	*10/06/22 16:35*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*	*10/04/22 13:31*	*10/06/22 16:35*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*10/04/22 13:31*	*10/06/22 16:35*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/04/22 13:31*	*10/06/22 16:35*	*1*

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0061	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
4-Nitrophenol	0.69	U	0.69	0.055	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Acenaphthene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[a]pyrene	0.034	U	0.034	0.0090	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0088	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0067	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.026	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Chrysene	0.34	U	0.34	0.0057	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Fluorene	0.34	U	0.34	0.0099	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachlorobutadiene	0.069	U	0.069	0.0072	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Pentachlorophenol	0.27	U	0.27	0.070	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Phenanthrene	0.34	U	0.34	0.0060	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Phenol	0.34	U	0.34	0.012	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1
Pyrene	0.34	U	0.34	0.0084	mg/Kg	☼	10/04/22 18:31	10/05/22 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*10 - 123*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
2-Fluorobiphenyl	*80*		*22 - 122*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
2-Fluorophenol (Surr)	*68*		*18 - 123*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
Nitrobenzene-d5 (Surr)	*69*		*16 - 125*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
Phenol-d5 (Surr)	*66*		*23 - 120*	*10/04/22 18:31*	*10/05/22 05:45*	*1*
Terphenyl-d14 (Surr)	*84*		*25 - 126*	*10/04/22 18:31*	*10/05/22 05:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
beta-BHC	0.0021	U	0.0021	0.00077	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Dieldrin	0.0021	U	0.0021	0.00089	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1

Client Sample ID: SB-07_32-34_20221003
Date Collected: 10/03/22 10:45
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-8
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/04/22 16:51	10/05/22 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:44*	*1*
DCB Decachlorobiphenyl	*63*		*43 - 150*	*10/04/22 16:51*	*10/05/22 08:44*	*1*
Tetrachloro-m-xylene	*80*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:44*	*1*
Tetrachloro-m-xylene	*74*		*26 - 137*	*10/04/22 16:51*	*10/05/22 08:44*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/04/22 16:32	10/05/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*
Tetrachloro-m-xylene	*82*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*
Tetrachloro-m-xylene	*78*		*42 - 150*	*10/04/22 16:32*	*10/05/22 12:52*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3830**		19.9	5.5	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Arsenic	**1.0**		1.0	0.10	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Barium	**29.2**		2.0	0.14	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Beryllium	**0.22**	**J**	0.40	0.057	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Calcium	**6370**		99.7	17.7	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Chromium	**10.2**		2.0	0.91	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Cobalt	**3.6**		2.0	0.15	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Copper	**15.4**		2.0	0.37	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Iron	**8020**		59.8	20.1	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Lead	**13.7**		0.60	0.20	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Magnesium	**4700**		99.7	10.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Manganese	**212**		4.0	0.40	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Nickel	**8.1**		2.0	0.47	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Potassium	**729**		99.7	16.2	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Selenium	1.2	U	1.2	0.13	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Silver	0.40	U	0.40	0.089	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Sodium	**170**		99.7	45.6	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Thallium	**0.062**	**J**	0.40	0.041	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	13.4		2.0	0.21	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1
Zinc	21.4		8.0	3.0	mg/Kg	☼	10/05/22 09:17	10/07/22 01:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0076	mg/Kg	☼	10/05/22 00:21	10/05/22 05:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.89	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	2.6		1.0	1.0	%			10/05/22 09:25	1
Percent Solids (EPA Moisture)	97.4		1.0	1.0	%			10/05/22 09:25	1

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.00026	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00049	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00045	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00034	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00024	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
2-Butanone (MEK)	0.0054	U	0.0054	0.00040	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
2-Hexanone	0.0054	U	0.0054	0.0018	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
4-Methyl-2-pentanone (MIBK)	0.0054	U	0.0054	0.0017	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Acetone	0.0065	U	0.0065	0.0062	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Benzene	0.0011	U	0.0011	0.00028	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Bromomethane	0.0022	U	0.0022	0.0011	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Carbon disulfide	0.0011	U	0.0011	0.00029	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Carbon tetrachloride	0.0011	U	0.0011	0.00042	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chloroethane	0.0011	U	0.0011	0.00056	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chloroform	0.0011	U	0.0011	0.0010	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Chloromethane	0.0011	U	0.0011	0.00047	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1

Client Sample ID: SB-05_0-2_20221004
Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1
Matrix: Solid
Percent Solids: 90.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00039	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00036	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Ethylbenzene	0.0011	U	0.0011	0.00021	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Isopropylbenzene	0.0011	U	0.0011	0.00031	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methyl acetate	0.0054	U	0.0054	0.0046	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00055	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methylcyclohexane	0.0011	U	0.0011	0.00054	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Methylene Chloride	0.0022	U	0.0022	0.0012	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
n-Butylbenzene	0.0011	U	0.0011	0.00032	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
N-Propylbenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
o-Xylene	0.0011	U	0.0011	0.00021	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
sec-Butylbenzene	0.0011	U	0.0011	0.00031	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Styrene	0.0011	U	0.0011	0.00030	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
tert-Butylbenzene	0.0011	U	0.0011	0.00030	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Tetrachloroethene	**0.0097**		0.0011	0.00033	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Toluene	0.0011	U	0.0011	0.00025	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00026	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Trichloroethene	0.0011	U	0.0011	0.00035	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Vinyl chloride	0.0011	U	0.0011	0.00059	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1
Xylenes, Total	0.0022	U	0.0022	0.00019	mg/Kg	☼	10/05/22 20:07	10/07/22 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 145*	*10/05/22 20:07*	*10/07/22 01:54*	*1*
4-Bromofluorobenzene	*116*		*75 - 139*	*10/05/22 20:07*	*10/07/22 01:54*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*	*10/05/22 20:07*	*10/07/22 01:54*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/05/22 20:07*	*10/07/22 01:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**0.14**	**J**	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
1,4-Dioxane	0.037	U	0.037	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0066	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.047	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dichlorophenol	0.15	U	0.15	0.024	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dimethylphenol	0.37	U	0.37	0.044	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,4-Dinitrotoluene	0.074	U	0.074	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2,6-Dinitrotoluene	0.074	U	0.074	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Chlorophenol	0.37	U	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1

Client Sample ID: SB-05_0-2_20221004
Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1
Matrix: Solid
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.28	J	0.37	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Methylphenol	0.37	U	0.37	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Nitroaniline	0.37	U	0.37	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
2-Nitrophenol	0.37	U	0.37	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
3 & 4 Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.055	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
3-Nitroaniline	0.37	U	0.37	0.087	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.15	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.015	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Chloroaniline	0.37	U	0.37	0.065	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Methylphenol	0.37	U	0.37	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Nitroaniline	0.37	U	0.37	0.042	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
4-Nitrophenol	0.74	U	0.74	0.060	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Acenaphthene	2.7		0.37	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Acenaphthylene	0.67		0.37	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Acetophenone	0.37	U	0.37	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Anthracene	6.5		0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Atrazine	0.15	U *	0.15	0.022	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Benzaldehyde	0.37	U	0.37	0.061	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Benzo[g,h,i]perylene	7.5		0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Benzo[k]fluoranthene	7.6		0.037	0.0072	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.029	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Bis(2-ethylhexyl) phthalate	0.37	U	0.37	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Caprolactam	0.37	U *	0.37	0.057	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Carbazole	1.9		0.37	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Dibenz(a,h)anthracene	2.7		0.037	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Dibenzofuran	1.2		0.37	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Diethyl phthalate	0.37	U	0.37	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Dimethyl phthalate	0.37	U	0.37	0.083	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Di-n-butyl phthalate	0.026	J	0.37	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Di-n-octyl phthalate	0.37	U	0.37	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Fluorene	2.5		0.37	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachlorobenzene	0.037	U	0.037	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachlorobutadiene	0.074	U	0.074	0.0078	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Hexachloroethane	0.037	U	0.037	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Isophorone	0.15	U	0.15	0.11	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Naphthalene	0.47		0.37	0.0063	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Nitrobenzene	0.037	U	0.037	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.027	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
N-Nitrosodiphenylamine	0.056	J	0.37	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Pentachlorophenol	0.29	U	0.29	0.075	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1
Phenol	0.37	U	0.37	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*10 - 123*	*10/05/22 10:12*	*10/06/22 04:21*	*1*

Client Sample ID: SB-05_0-2_20221004

Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1

Matrix: Solid
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*22 - 122*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 123*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
Nitrobenzene-d5 (Surr)	*71*		*16 - 125*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
Phenol-d5 (Surr)	*68*		*23 - 120*	*10/05/22 10:12*	*10/06/22 04:21*	*1*
Terphenyl-d14 (Surr)	*86*		*25 - 126*	*10/05/22 10:12*	*10/06/22 04:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**25**		0.37	0.13	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Benzo[a]pyrene	**23**		0.37	0.098	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Benzo[b]fluoranthene	**29**		0.37	0.095	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Chrysene	**23**		3.7	0.062	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Fluoranthene	**48**		3.7	0.13	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Indeno[1,2,3-cd]pyrene	**17**		0.37	0.14	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Phenanthrene	**27**		3.7	0.064	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10
Pyrene	**38**		3.7	0.091	mg/Kg	☼	10/05/22 10:12	10/06/22 08:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*112*		*10 - 123*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
2-Fluorobiphenyl	*94*		*22 - 122*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
2-Fluorophenol (Surr)	*84*		*18 - 123*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
Nitrobenzene-d5 (Surr)	*85*		*16 - 125*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
Phenol-d5 (Surr)	*86*		*23 - 120*	*10/05/22 10:12*	*10/06/22 08:50*	*10*
Terphenyl-d14 (Surr)	*101*		*25 - 126*	*10/05/22 10:12*	*10/06/22 08:50*	*10*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0074	U	0.0074	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
4,4'-DDE	0.0074	U	0.0074	0.00088	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
4,4'-DDT	**0.0063**	**J**	0.0074	0.0014	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Aldrin	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
alpha-BHC	0.0022	U	0.0022	0.00075	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
beta-BHC	0.0022	U	0.0022	0.00083	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Chlordane (technical)	**0.12**		0.074	0.018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
cis-Chlordane	**0.013**	**p**	0.0074	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Dieldrin	**0.0027**		0.0022	0.00097	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endosulfan I	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endosulfan II	0.0074	U	0.0074	0.0019	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endosulfan sulfate	0.0074	U	0.0074	0.00093	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endrin	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endrin aldehyde	0.0074	U	0.0074	0.0018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Endrin ketone	0.0074	U	0.0074	0.0014	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00069	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Heptachlor	0.0074	U	0.0074	0.00088	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Heptachlor epoxide	0.0074	U	0.0074	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Methoxychlor	0.0074	U	0.0074	0.0017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1
Toxaphene	0.074	U	0.074	0.027	mg/Kg	☼	10/05/22 12:37	10/06/22 07:09	1

Client Sample ID: SB-05_0-2_20221004

Date Collected: 10/04/22 10:30
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-1

Matrix: Solid
Percent Solids: 90.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		43 - 150	10/05/22 12:37	10/06/22 07:09	1
DCB Decachlorobiphenyl	60		43 - 150	10/05/22 12:37	10/06/22 07:09	1
Tetrachloro-m-xylene	68		26 - 137	10/05/22 12:37	10/06/22 07:09	1
Tetrachloro-m-xylene	59		26 - 137	10/05/22 12:37	10/06/22 07:09	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1221	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1232	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1242	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1248	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1254	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1260	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor-1262	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Aroclor 1268	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1
Polychlorinated biphenyls, Total	0.074	U	0.074	0.020	mg/Kg	☼	10/05/22 12:32	10/06/22 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		10 - 150	10/05/22 12:32	10/06/22 11:18	1
DCB Decachlorobiphenyl	103		10 - 150	10/05/22 12:32	10/06/22 11:18	1
Tetrachloro-m-xylene	84		42 - 150	10/05/22 12:32	10/06/22 11:18	1
Tetrachloro-m-xylene	94		42 - 150	10/05/22 12:32	10/06/22 11:18	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6680		21.8	6.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Antimony	0.30	J	1.1	0.16	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Arsenic	6.9		1.1	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Barium	119		2.2	0.16	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Beryllium	0.40	J	0.44	0.062	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Cadmium	0.66	J	1.1	0.12	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Calcium	18600		109	19.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Chromium	15.5		2.2	0.99	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Cobalt	5.3		2.2	0.16	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Copper	63.1		2.2	0.40	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Iron	13600		65.3	22.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Lead	283		0.65	0.22	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Magnesium	5510		109	11.1	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Manganese	265		4.4	0.44	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Nickel	16.3		2.2	0.51	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Potassium	1050		109	17.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Selenium	0.48	J	1.4	0.14	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Silver	0.25	J	0.44	0.097	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Sodium	444		109	49.7	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Thallium	0.13	J	0.44	0.045	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Vanadium	28.1		2.2	0.22	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1
Zinc	149		8.7	3.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:47	1

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.094**		0.019	0.0089	mg/Kg	☼	10/06/22 00:22	10/06/22 04:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.95	mg/Kg	☼	10/10/22 08:32	10/10/22 14:40	1
Percent Moisture (EPA Moisture)	**9.9**		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	**90.1**		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0016	U	0.0016	0.00037	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1,2,2-Tetrachloroethane	0.0016	U	0.0016	0.00034	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0016	U	0.0016	0.00048	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1,2-Trichloroethane	0.0016	U	0.0016	0.00029	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1-Dichloroethane	0.0016	U	0.0016	0.00033	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,1-Dichloroethene	0.0016	U	0.0016	0.00036	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2,3-Trichlorobenzene	0.0016	U	0.0016	0.00029	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2,4-Trichlorobenzene	0.0016	U	0.0016	0.00057	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2,4-Trimethylbenzene	0.0016	U	0.0016	0.00039	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dibromo-3-Chloropropane	0.0016	U	0.0016	0.00074	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dichlorobenzene	0.0016	U	0.0016	0.00058	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dichloroethane	0.0016	U	0.0016	0.00048	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,2-Dichloropropane	0.0016	U	0.0016	0.00068	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,3,5-Trimethylbenzene	0.0016	U	0.0016	0.00050	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,3-Dichlorobenzene	0.0016	U	0.0016	0.00059	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
1,4-Dichlorobenzene	0.0016	U	0.0016	0.00036	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
2-Butanone (MEK)	0.0080	U	0.0080	0.00059	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
2-Hexanone	0.0080	U	0.0080	0.0027	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
4-Methyl-2-pentanone (MIBK)	0.0080	U	0.0080	0.0025	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Acetone	**0.14**		0.0096	0.0092	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Benzene	0.0016	U	0.0016	0.00041	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Bromoform	0.0016	U	0.0016	0.00068	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Bromomethane	0.0032	U	0.0032	0.0016	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Carbon disulfide	0.0016	U	0.0016	0.00043	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Carbon tetrachloride	0.0016	U	0.0016	0.00062	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chlorobenzene	0.0016	U	0.0016	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chlorobromomethane	0.0016	U	0.0016	0.00045	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chlorodibromomethane	0.0016	U	0.0016	0.00031	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chloroethane	0.0016	U	0.0016	0.00084	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chloroform	0.0016	U	0.0016	0.0016	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Chloromethane	0.0016	U	0.0016	0.00070	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
cis-1,2-Dichloroethene	0.0016	U	0.0016	0.00057	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
cis-1,3-Dichloropropene	0.0016	U	0.0016	0.00044	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Cyclohexane	0.0016	U	0.0016	0.00035	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Dichlorobromomethane	0.0016	U	0.0016	0.00041	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Dichlorodifluoromethane	0.0016	U	0.0016	0.00054	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1

Client Sample ID: SB-05_29-31_20221004
Date Collected: 10/04/22 10:35
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-2
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.0016	U	0.0016	0.00032	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Ethylene Dibromide	0.0016	U	0.0016	0.00029	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Isopropylbenzene	0.0016	U	0.0016	0.00046	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methyl acetate	0.0080	U	0.0080	0.0069	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methyl tert-butyl ether	0.0016	U	0.0016	0.00082	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methylcyclohexane	0.0016	U	0.0016	0.00080	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Methylene Chloride	0.0032	U	0.0032	0.0018	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
m-Xylene & p-Xylene	0.0016	U	0.0016	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
n-Butylbenzene	0.0016	U	0.0016	0.00047	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
N-Propylbenzene	0.0016	U	0.0016	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
o-Xylene	0.0016	U	0.0016	0.00031	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
sec-Butylbenzene	0.0016	U	0.0016	0.00046	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Styrene	0.0016	U	0.0016	0.00045	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
tert-Butylbenzene	0.0016	U	0.0016	0.00044	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Tetrachloroethene	**0.0014**	**J**	0.0016	0.00049	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Toluene	0.0016	U	0.0016	0.00038	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
trans-1,2-Dichloroethene	0.0016	U	0.0016	0.00039	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
trans-1,3-Dichloropropene	0.0016	U	0.0016	0.00043	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Trichloroethene	0.0016	U	0.0016	0.00052	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Trichlorofluoromethane	0.0016	U	0.0016	0.00065	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Vinyl chloride	0.0016	U	0.0016	0.00088	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1
Xylenes, Total	0.0032	U	0.0032	0.00028	mg/Kg	☼	10/05/22 20:09	10/07/22 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 145*	*10/05/22 20:09*	*10/07/22 02:19*	*1*
4-Bromofluorobenzene	*109*		*75 - 139*	*10/05/22 20:09*	*10/07/22 02:19*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*	*10/05/22 20:09*	*10/07/22 02:19*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*	*10/05/22 20:09*	*10/07/22 02:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0062	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Methylnaphthalene	0.34	U	0.34	0.0096	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1

Client Sample ID: SB-05_29-31_20221004
Date Collected: 10/04/22 10:35
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-2
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.14	U	0.14	0.052	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Chloroaniline	0.34	U	0.34	0.061	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
4-Nitrophenol	0.69	U	0.69	0.056	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Acenaphthene	**0.030**	**J**	0.34	0.0097	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Acenaphthylene	**0.037**	**J**	0.34	0.0098	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Anthracene	**0.080**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Atrazine	0.14	U *	0.14	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzaldehyde	0.34	U	0.34	0.057	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[a]anthracene	**0.27**		0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[a]pyrene	**0.29**		0.034	0.0091	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[b]fluoranthene	**0.39**		0.034	0.0088	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[g,h,i]perylene	**1.3**		0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Benzo[k]fluoranthene	**0.14**		0.034	0.0067	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.027	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Caprolactam	0.34	U *	0.34	0.053	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Carbazole	**0.023**	**J**	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Chrysene	**0.20**	**J**	0.34	0.0058	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Dibenz(a,h)anthracene	**0.22**		0.034	0.015	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Dimethyl phthalate	0.34	U	0.34	0.078	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Fluoranthene	**0.46**		0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Fluorene	**0.018**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachlorobutadiene	0.069	U	0.069	0.0073	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Indeno[1,2,3-cd]pyrene	**1.2**		0.034	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Isophorone	0.14	U	0.14	0.099	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Naphthalene	**0.0062**	**J**	0.34	0.0059	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Pentachlorophenol	0.27	U	0.27	0.070	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Phenanthrene	**0.18**	**J**	0.34	0.0060	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1
Phenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1

Client Sample ID: SB-05_29-31_20221004

Date Collected: 10/04/22 10:35
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-2

Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.39		0.34	0.0085	mg/Kg	☼	10/05/22 10:12	10/06/22 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 123*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
2-Fluorobiphenyl	*85*		*22 - 122*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
2-Fluorophenol (Surr)	*70*		*18 - 123*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
Nitrobenzene-d5 (Surr)	*74*		*16 - 125*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
Phenol-d5 (Surr)	*69*		*23 - 120*	*10/05/22 10:12*	*10/06/22 04:38*	*1*
Terphenyl-d14 (Surr)	*91*		*25 - 126*	*10/05/22 10:12*	*10/06/22 04:38*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
4,4'-DDE	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
beta-BHC	0.0021	U	0.0021	0.00078	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Dieldrin	0.0021	U	0.0021	0.00090	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endosulfan I	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endosulfan sulfate	0.0069	U	0.0069	0.00087	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Heptachlor	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 12:37	10/06/22 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:21*	*1*
DCB Decachlorobiphenyl	*60*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:21*	*1*
Tetrachloro-m-xylene	*80*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:21*	*1*
Tetrachloro-m-xylene	*71*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:21*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*
Tetrachloro-m-xylene	*109*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*
Tetrachloro-m-xylene	*102*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:38*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3380**		20.7	5.7	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Arsenic	**0.72**	**J**	1.0	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Barium	**22.4**		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Beryllium	**0.19**	**J**	0.41	0.059	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Cadmium	1.0	U	1.0	0.12	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Calcium	**18100**		104	18.4	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Chromium	**9.7**		2.1	0.94	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Cobalt	**3.0**		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Copper	**8.9**		2.1	0.38	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Iron	**6800**		62.2	20.9	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Lead	**4.8**		0.62	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Magnesium	**9550**		104	10.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Manganese	**190**		4.1	0.42	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Nickel	**6.7**		2.1	0.49	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Potassium	**694**		104	16.8	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Selenium	1.3	U	1.3	0.13	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Silver	0.41	U	0.41	0.092	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Sodium	**175**		104	47.4	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Thallium	0.41	U	0.41	0.043	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Vanadium	**12.5**		2.1	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1
Zinc	**16.4**		8.3	3.2	mg/Kg	☼	10/06/22 08:43	10/07/22 21:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0082	mg/Kg	☼	10/06/22 00:22	10/06/22 03:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	10/10/22 17:57	10/11/22 10:10	1
Percent Moisture (EPA Moisture)	**3.5**		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	**96.5**		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-06_0-2_20221004

Lab Sample ID: 460-266826-3
Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0014	U	0.0014	0.00033	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1

Client Sample ID: SB-06_0-2_20221004
Date Collected: 10/04/22 14:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-3
Matrix: Solid
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.0014	U	0.0014	0.00030	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0014	U	0.0014	0.00043	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1,2-Trichloroethane	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1-Dichloroethane	0.0014	U	0.0014	0.00029	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,1-Dichloroethene	0.0014	U	0.0014	0.00032	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2,3-Trichlorobenzene	0.0014	U	0.0014	0.00026	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2,4-Trichlorobenzene	0.0014	U	0.0014	0.00051	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2,4-Trimethylbenzene	0.0014	U	0.0014	0.00035	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dibromo-3-Chloropropane	0.0014	U	0.0014	0.00065	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dichlorobenzene	0.0014	U	0.0014	0.00051	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dichloroethane	0.0014	U	0.0014	0.00042	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,2-Dichloropropane	0.0014	U	0.0014	0.00060	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,3,5-Trimethylbenzene	0.0014	U	0.0014	0.00044	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,3-Dichlorobenzene	0.0014	U	0.0014	0.00052	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
1,4-Dichlorobenzene	0.0014	U	0.0014	0.00032	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
2-Butanone (MEK)	0.0071	U	0.0071	0.00052	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
2-Hexanone	0.0071	U	0.0071	0.0024	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
4-Methyl-2-pentanone (MIBK)	0.0071	U	0.0071	0.0022	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Acetone	0.0085	U	0.0085	0.0081	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Benzene	0.0014	U	0.0014	0.00036	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Bromoform	0.0014	U	0.0014	0.00060	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Bromomethane	0.0028	U	0.0028	0.0014	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Carbon disulfide	0.0014	U	0.0014	0.00038	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Carbon tetrachloride	0.0014	U	0.0014	0.00055	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chlorobenzene	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chlorobromomethane	0.0014	U	0.0014	0.00040	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chlorodibromomethane	0.0014	U	0.0014	0.00027	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chloroethane	0.0014	U	0.0014	0.00074	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chloroform	0.0014	U	0.0014	0.0014	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Chloromethane	0.0014	U	0.0014	0.00061	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
cis-1,2-Dichloroethene	0.0014	U	0.0014	0.00051	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
cis-1,3-Dichloropropene	0.0014	U	0.0014	0.00039	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Cyclohexane	0.0014	U	0.0014	0.00031	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Dichlorobromomethane	0.0014	U	0.0014	0.00036	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Dichlorodifluoromethane	0.0014	U	0.0014	0.00048	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Ethylbenzene	0.0014	U	0.0014	0.00028	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Ethylene Dibromide	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Isopropylbenzene	0.0014	U	0.0014	0.00040	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methyl acetate	0.0071	U	0.0071	0.0061	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methyl tert-butyl ether	0.0014	U	0.0014	0.00072	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methylcyclohexane	0.0014	U	0.0014	0.00071	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Methylene Chloride	0.0028	U	0.0028	0.0016	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
m-Xylene & p-Xylene	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
n-Butylbenzene	0.0014	U	0.0014	0.00042	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
N-Propylbenzene	0.0014	U	0.0014	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
o-Xylene	0.0014	U	0.0014	0.00027	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
sec-Butylbenzene	0.0014	U	0.0014	0.00041	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Styrene	0.0014	U	0.0014	0.00039	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
tert-Butylbenzene	0.0014	U	0.0014	0.00039	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1

Client Sample ID: SB-06_0-2_20221004

Date Collected: 10/04/22 14:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-3

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.0014	U	0.0014	0.00043	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Toluene	0.0014	U	0.0014	0.00033	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
trans-1,2-Dichloroethene	0.0014	U	0.0014	0.00035	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
trans-1,3-Dichloropropene	0.0014	U	0.0014	0.00038	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Trichloroethene	0.0014	U	0.0014	0.00045	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Trichlorofluoromethane	0.0014	U	0.0014	0.00057	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Vinyl chloride	0.0014	U	0.0014	0.00077	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1
Xylenes, Total	0.0028	U	0.0028	0.00025	mg/Kg	☼	10/05/22 20:10	10/07/22 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 145*	*10/05/22 20:10*	*10/07/22 02:43*	*1*
4-Bromofluorobenzene	*116*		*75 - 139*	*10/05/22 20:10*	*10/07/22 02:43*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 139*	*10/05/22 20:10*	*10/07/22 02:43*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*	*10/05/22 20:10*	*10/07/22 02:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
1,4-Dioxane	0.036	U	0.036	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.046	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dichlorophenol	0.15	U	0.15	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dimethylphenol	0.36	U	0.36	0.043	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,4-Dinitrotoluene	0.073	U	0.073	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2,6-Dinitrotoluene	0.073	U	0.073	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Chlorophenol	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Methylnaphthalene	0.36	U	0.36	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Methylphenol	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Nitroaniline	0.36	U	0.36	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
2-Nitrophenol	0.36	U	0.36	0.036	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
3 & 4 Methylphenol	0.36	U	0.36	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.055	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
3-Nitroaniline	0.36	U	0.36	0.086	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.15	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Chloroaniline	0.36	U	0.36	0.064	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Methylphenol	0.36	U	0.36	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Nitroaniline	0.36	U	0.36	0.042	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
4-Nitrophenol	0.73	U	0.73	0.059	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Acenaphthene	0.36	U	0.36	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Acenaphthylene	**0.010**	**J**	0.36	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Acetophenone	0.36	U	0.36	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Anthracene	**0.028**	**J**	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1

Client Sample ID: SB-06_0-2_20221004

Date Collected: 10/04/22 14:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-3

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.15	U *	0.15	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzaldehyde	0.36	U	0.36	0.060	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[a]anthracene	0.036	U	0.036	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[a]pyrene	**0.13**		0.036	0.0096	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[b]fluoranthene	**0.17**		0.036	0.0094	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[g,h,i]perylene	**0.062**	**J**	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Benzo[k]fluoranthene	**0.066**		0.036	0.0071	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Bis(2-ethylhexyl) phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Butyl benzyl phthalate	0.36	U	0.36	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Caprolactam	0.36	U *	0.36	0.056	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Carbazole	0.36	U	0.36	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Chrysene	**0.11**	**J**	0.36	0.0061	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Dibenz(a,h)anthracene	0.036	U	0.036	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Dibenzofuran	0.36	U	0.36	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Diethyl phthalate	0.36	U	0.36	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Dimethyl phthalate	0.36	U	0.36	0.082	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Di-n-butyl phthalate	0.36	U	0.36	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Fluoranthene	**0.22**	**J**	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Fluorene	0.36	U	0.36	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachlorobenzene	0.036	U	0.036	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachlorobutadiene	0.073	U	0.073	0.0077	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.032	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Hexachloroethane	0.036	U	0.036	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.036	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Isophorone	0.15	U	0.15	0.10	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Naphthalene	0.36	U	0.36	0.0063	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Nitrobenzene	0.036	U	0.036	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Pentachlorophenol	0.29	U	0.29	0.074	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Phenanthrene	**0.12**	**J**	0.36	0.0064	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Phenol	0.36	U	0.36	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1
Pyrene	**0.21**	**J**	0.36	0.0090	mg/Kg	☼	10/05/22 10:12	10/06/22 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*10 - 123*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
2-Fluorobiphenyl	*89*		*22 - 122*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
2-Fluorophenol (Surr)	*75*		*18 - 123*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
Nitrobenzene-d5 (Surr)	*79*		*16 - 125*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
Phenol-d5 (Surr)	*77*		*23 - 120*	*10/05/22 10:12*	*10/06/22 03:47*	*1*
Terphenyl-d14 (Surr)	*98*		*25 - 126*	*10/05/22 10:12*	*10/06/22 03:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
4,4'-DDE	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
4,4'-DDT	0.0073	U	0.0073	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1

Client Sample ID: SB-06_0-2_20221004

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Lab Sample ID: 460-266826-3

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
alpha-BHC	0.0022	U	0.0022	0.00074	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
beta-BHC	0.0022	U	0.0022	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Chlordane (technical)	0.073	U	0.073	0.018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
cis-Chlordane	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Dieldrin	0.0022	U	0.0022	0.00095	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endosulfan I	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endosulfan II	0.0073	U	0.0073	0.0019	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endosulfan sulfate	0.0073	U	0.0073	0.00092	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endrin	0.0073	U	0.0073	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endrin aldehyde	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Endrin ketone	0.0073	U	0.0073	0.0014	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00068	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Heptachlor	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Heptachlor epoxide	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Methoxychlor	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1
Toxaphene	0.073	U	0.073	0.026	mg/Kg	☼	10/05/22 12:37	10/06/22 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:34*	*1*
DCB Decachlorobiphenyl	*69*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:34*	*1*
Tetrachloro-m-xylene	*73*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:34*	*1*
Tetrachloro-m-xylene	*67*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:34*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1221	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1232	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1242	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1248	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1254	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1260	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor-1262	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Aroclor 1268	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1
Polychlorinated biphenyls, Total	0.073	U	0.073	0.019	mg/Kg	☼	10/05/22 12:32	10/06/22 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*
DCB Decachlorobiphenyl	*114*		*10 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*
Tetrachloro-m-xylene	*95*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*
Tetrachloro-m-xylene	*96*		*42 - 150*	*10/05/22 12:32*	*10/06/22 11:57*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6750**		20.8	5.7	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Arsenic	**3.4**		1.0	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Barium	**37.3**		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1

Client Sample ID: SB-06_0-2_20221004

Lab Sample ID: 460-266826-3

Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 91.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.41	J	0.42	0.059	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Cadmium	0.16	J	1.0	0.12	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Calcium	8910		104	18.4	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Chromium	12.3		2.1	0.95	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Cobalt	6.0		2.1	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Copper	27.7		2.1	0.38	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Iron	11500		62.5	21.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Lead	30.4		0.62	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Magnesium	3720		104	10.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Manganese	335		4.2	0.42	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Nickel	12.3		2.1	0.49	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Potassium	763		104	16.9	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Selenium	0.19	J	1.3	0.13	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Silver	0.42	U	0.42	0.093	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Sodium	281		104	47.6	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Thallium	0.079	J	0.42	0.043	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Vanadium	17.2		2.1	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1
Zinc	42.5		8.3	3.2	mg/Kg	☼	10/06/22 08:43	10/07/22 21:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.017	0.0082	mg/Kg	☼	10/06/22 00:22	10/06/22 04:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.2	U	2.2	0.93	mg/Kg	☼	10/10/22 17:57	10/11/22 10:10	1
Percent Moisture (EPA Moisture)	8.6		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	91.4		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-06_29-31_20221004

Lab Sample ID: 460-266826-4

Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0012	U	0.0012	0.00028	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.00026	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0012	U	0.0012	0.00036	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1,2-Trichloroethane	0.0012	U	0.0012	0.00022	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1-Dichloroethane	0.0012	U	0.0012	0.00025	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,1-Dichloroethene	0.0012	U	0.0012	0.00027	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2,3-Trichlorobenzene	0.0012	U	0.0012	0.00022	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.00043	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2,4-Trimethylbenzene	0.0012	U	0.0012	0.00030	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dibromo-3-Chloropropane	0.0012	U	0.0012	0.00056	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dichlorobenzene	0.0012	U	0.0012	0.00044	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dichloroethane	0.0012	U	0.0012	0.00036	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,2-Dichloropropane	0.0012	U	0.0012	0.00051	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,3,5-Trimethylbenzene	0.0012	U	0.0012	0.00038	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
1,3-Dichlorobenzene	0.0012	U	0.0012	0.00044	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0012	U	0.0012	0.00027	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
2-Butanone (MEK)	0.0061	U	0.0061	0.00045	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
2-Hexanone	0.0061	U	0.0061	0.0021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
4-Methyl-2-pentanone (MIBK)	0.0061	U	0.0061	0.0019	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Acetone	0.0073	U	0.0073	0.0069	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Benzene	0.0012	U	0.0012	0.00031	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Bromoform	0.0012	U	0.0012	0.00051	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Bromomethane	0.0024	U	0.0024	0.0012	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Carbon disulfide	0.0012	U	0.0012	0.00032	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Carbon tetrachloride	0.0012	U	0.0012	0.00047	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chlorobenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chlorobromomethane	0.0012	U	0.0012	0.00034	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chlorodibromomethane	0.0012	U	0.0012	0.00023	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chloroethane	0.0012	U	0.0012	0.00063	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Chloromethane	0.0012	U	0.0012	0.00053	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
cis-1,2-Dichloroethene	0.0012	U	0.0012	0.00043	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
cis-1,3-Dichloropropene	0.0012	U	0.0012	0.00033	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Cyclohexane	0.0012	U	0.0012	0.00027	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Dichlorobromomethane	0.0012	U	0.0012	0.00031	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Dichlorodifluoromethane	0.0012	U	0.0012	0.00041	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Ethylbenzene	0.0012	U	0.0012	0.00024	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Ethylene Dibromide	0.0012	U	0.0012	0.00022	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Isopropylbenzene	0.0012	U	0.0012	0.00035	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methyl acetate	0.0061	U	0.0061	0.0052	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methyl tert-butyl ether	0.0012	U	0.0012	0.00062	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methylcyclohexane	0.0012	U	0.0012	0.00060	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Methylene Chloride	0.0024	U	0.0024	0.0014	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
m-Xylene & p-Xylene	0.0012	U	0.0012	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
n-Butylbenzene	0.0012	U	0.0012	0.00036	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
N-Propylbenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
o-Xylene	0.0012	U	0.0012	0.00023	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
sec-Butylbenzene	0.0012	U	0.0012	0.00035	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Styrene	0.0012	U	0.0012	0.00034	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
tert-Butylbenzene	0.0012	U	0.0012	0.00033	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Tetrachloroethene	**0.00087**	**J**	0.0012	0.00037	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Toluene	0.0012	U	0.0012	0.00028	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
trans-1,2-Dichloroethene	0.0012	U	0.0012	0.00030	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
trans-1,3-Dichloropropene	0.0012	U	0.0012	0.00032	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Trichloroethene	0.0012	U	0.0012	0.00039	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Trichlorofluoromethane	0.0012	U	0.0012	0.00049	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Vinyl chloride	0.0012	U	0.0012	0.00066	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1
Xylenes, Total	0.0024	U	0.0024	0.00021	mg/Kg	☼	10/05/22 20:12	10/07/22 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 145*	*10/05/22 20:12*	*10/07/22 03:08*	*1*
4-Bromofluorobenzene	*107*		*75 - 139*	*10/05/22 20:12*	*10/07/22 03:08*	*1*
Dibromofluoromethane (Surr)	*93*		*73 - 139*	*10/05/22 20:12*	*10/07/22 03:08*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*10/05/22 20:12*	*10/07/22 03:08*	*1*

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0062	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.035	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.044	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dimethylphenol	0.34	U	0.34	0.041	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dinitrophenol	0.28	U	0.28	0.17	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,4-Dinitrotoluene	0.069	U	0.069	0.037	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2,6-Dinitrotoluene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Methylnaphthalene	0.34	U	0.34	0.0096	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.052	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
3-Nitroaniline	0.34	U	0.34	0.081	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4,6-Dinitro-2-methylphenol	0.28	U	0.28	0.14	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.014	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Chloroaniline	0.34	U	0.34	0.061	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
4-Nitrophenol	0.69	U	0.69	0.056	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Acenaphthene	0.34	U	0.34	0.0098	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Acenaphthylene	0.34	U	0.34	0.0098	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Anthracene	**0.023**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Atrazine	0.14	U *	0.14	0.020	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzaldehyde	0.34	U	0.34	0.057	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[a]pyrene	**0.053**		0.034	0.0091	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0089	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[g,h,i]perylene	**0.024**	**J**	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0067	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.027	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Caprolactam	0.34	U *	0.34	0.053	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Chrysene	**0.049**	**J**	0.34	0.0058	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Dimethyl phthalate	0.34	U	0.34	0.078	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Fluoranthene	**0.10**	**J**	0.34	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Fluorene	0.34	U	0.34	0.010	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachlorobutadiene	0.069	U	0.069	0.0073	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Indeno[1,2,3-cd]pyrene	**0.071**		0.034	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Isophorone	0.14	U	0.14	0.099	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Naphthalene	0.34	U	0.34	0.0059	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Pentachlorophenol	0.28	U	0.28	0.070	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Phenanthrene	**0.076**	**J**	0.34	0.0060	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Phenol	0.34	U	0.34	0.013	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1
Pyrene	**0.10**	**J**	0.34	0.0085	mg/Kg	☼	10/05/22 10:12	10/06/22 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 123*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
2-Fluorobiphenyl	*92*		*22 - 122*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
2-Fluorophenol (Surr)	*77*		*18 - 123*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
Nitrobenzene-d5 (Surr)	*80*		*16 - 125*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
Phenol-d5 (Surr)	*77*		*23 - 120*	*10/05/22 10:12*	*10/06/22 04:04*	*1*
Terphenyl-d14 (Surr)	*97*		*25 - 126*	*10/05/22 10:12*	*10/06/22 04:04*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
4,4'-DDE	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
alpha-BHC	0.0021	U	0.0021	0.00070	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
beta-BHC	0.0021	U	0.0021	0.00078	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
delta-BHC	0.0021	U	0.0021	0.00042	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Dieldrin	0.0021	U	0.0021	0.00090	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endosulfan I	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endosulfan sulfate	0.0069	U	0.0069	0.00087	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endrin	0.0069	U	0.0069	0.00099	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00064	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Heptachlor	0.0069	U	0.0069	0.00082	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1

Client Sample ID: SB-06_29-31_20221004
Date Collected: 10/04/22 14:05
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-4
Matrix: Solid
Percent Solids: 96.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/05/22 12:37	10/06/22 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:46*	*1*
DCB Decachlorobiphenyl	*56*		*43 - 150*	*10/05/22 12:37*	*10/06/22 07:46*	*1*
Tetrachloro-m-xylene	*65*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:46*	*1*
Tetrachloro-m-xylene	*59*		*26 - 137*	*10/05/22 12:37*	*10/06/22 07:46*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/05/22 12:32	10/06/22 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*
DCB Decachlorobiphenyl	*100*		*10 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*
Tetrachloro-m-xylene	*85*		*42 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*
Tetrachloro-m-xylene	*99*		*42 - 150*	*10/05/22 12:32*	*10/06/22 12:17*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3730**		20.1	5.5	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Antimony	1.0	U	1.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Arsenic	**0.79**	**J**	1.0	0.10	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Barium	**23.0**		2.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Beryllium	**0.19**	**J**	0.40	0.057	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Cadmium	1.0	U	1.0	0.11	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Calcium	**22200**		101	17.8	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Chromium	**9.1**		2.0	0.91	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Cobalt	**3.7**		2.0	0.15	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Copper	**9.6**		2.0	0.37	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Iron	**8350**		60.4	20.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Lead	**2.2**		0.60	0.20	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Magnesium	**14700**		101	10.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Manganese	**176**		4.0	0.41	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Nickel	**7.9**		2.0	0.47	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Potassium	**918**		101	16.3	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Selenium	1.3	U	1.3	0.13	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Silver	0.40	U	0.40	0.090	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Sodium	**281**		101	46.0	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Thallium	**0.049**	**J**	0.40	0.041	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1

Client Sample ID: SB-06_29-31_20221004

Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**15.5**		2.0	0.21	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1
Zinc	**22.7**		8.1	3.1	mg/Kg	☼	10/06/22 08:43	10/07/22 21:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.016	0.0075	mg/Kg	☼	10/06/22 00:22	10/06/22 04:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.88	mg/Kg	☼	10/10/22 17:57	10/11/22 10:10	1
Percent Moisture (EPA Moisture)	**3.5**		1.0	1.0	%			10/05/22 21:11	1
Percent Solids (EPA Moisture)	**96.5**		1.0	1.0	%			10/05/22 21:11	1

Client Sample ID: SB-01_0-2_20221005

Lab Sample ID: 460-266877-1
Date Collected: 10/05/22 08:10
Matrix: Solid
Date Received: 10/05/22 18:00
Percent Solids: 91.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00040	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00027	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00030	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2,4-Trimethylbenzene	**0.00055**	**J**	0.0013	0.00033	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00061	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00056	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00042	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00049	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00030	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
2-Butanone (MEK)	0.0067	U	0.0067	0.00049	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
2-Hexanone	0.0067	U	0.0067	0.0023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
4-Methyl-2-pentanone (MIBK)	0.0067	U	0.0067	0.0021	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Acetone	0.0080	U	0.0080	0.0076	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Benzene	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Bromoform	0.0013	U	0.0013	0.00057	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Bromomethane	0.0027	U	0.0027	0.0013	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Carbon disulfide	0.0013	U	0.0013	0.00035	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Carbon tetrachloride	0.0013	U	0.0013	0.00052	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chlorobromomethane	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chlorodibromomethane	0.0013	U	0.0013	0.00026	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chloroethane	0.0013	U	0.0013	0.00070	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chloroform	0.0013	U	0.0013	0.0013	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Chloromethane	0.0013	U	0.0013	0.00058	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1

Client Sample ID: SB-01_0-2_20221005
Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1
Matrix: Solid
Percent Solids: 91.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Cyclohexane	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Dichlorobromomethane	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00045	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Ethylbenzene	0.0013	U	0.0013	0.00027	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Ethylene Dibromide	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Isopropylbenzene	0.0013	U	0.0013	0.00038	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methyl acetate	0.0067	U	0.0067	0.0057	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00068	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methylcyclohexane	0.0013	U	0.0013	0.00067	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Methylene Chloride	0.0027	U	0.0027	0.0015	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
n-Butylbenzene	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
N-Propylbenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
o-Xylene	0.0013	U	0.0013	0.00026	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
sec-Butylbenzene	0.0013	U	0.0013	0.00038	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Styrene	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
tert-Butylbenzene	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Tetrachloroethene	0.0013	U	0.0013	0.00041	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Toluene	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00033	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00035	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Trichloroethene	0.0013	U	0.0013	0.00043	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00054	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Vinyl chloride	0.0013	U	0.0013	0.00073	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1
Xylenes, Total	0.0027	U	0.0027	0.00023	mg/Kg	☼	10/06/22 16:35	10/08/22 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 145*	*10/06/22 16:35*	*10/08/22 02:26*	*1*
4-Bromofluorobenzene	*111*		*75 - 139*	*10/06/22 16:35*	*10/08/22 02:26*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 139*	*10/06/22 16:35*	*10/08/22 02:26*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*10/06/22 16:35*	*10/08/22 02:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**0.081**	**J**	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
1,4-Dioxane	0.036	U	0.036	0.031	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.037	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.046	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dichlorophenol	0.14	U	0.14	0.023	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dimethylphenol	0.36	U	0.36	0.043	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,4-Dinitrotoluene	0.073	U	0.073	0.039	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2,6-Dinitrotoluene	0.073	U	0.073	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Chlorophenol	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1

Client Sample ID: SB-01_0-2_20221005
Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1
Matrix: Solid
Percent Solids: 91.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.28	J	0.36	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Methylphenol	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Nitroaniline	0.36	U	0.36	0.027	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
2-Nitrophenol	0.36	U	0.36	0.036	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
3 & 4 Methylphenol	0.36	U	0.36	0.022	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
3-Nitroaniline	0.36	U	0.36	0.085	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.15	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.020	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Chloroaniline	0.36	U	0.36	0.064	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Methylphenol	0.36	U	0.36	0.022	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Nitroaniline	0.36	U	0.36	0.041	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
4-Nitrophenol	0.73	U	0.73	0.059	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Acenaphthene	0.84		0.36	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Acenaphthylene	0.22	J	0.36	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Acetophenone	0.36	U	0.36	0.018	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Anthracene	2.3		0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Atrazine	0.14	U	0.14	0.021	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzaldehyde	0.36	U	0.36	0.060	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[a]anthracene	6.5		0.036	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[a]pyrene	5.3		0.036	0.0096	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[b]fluoranthene	7.1		0.036	0.0093	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[g,h,i]perylene	3.3		0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Benzo[k]fluoranthene	2.3		0.036	0.0071	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.028	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Bis(2-ethylhexyl) phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Butyl benzyl phthalate	0.36	U	0.36	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Caprolactam	0.36	U	0.36	0.056	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Carbazole	0.86		0.36	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Chrysene	6.0		0.36	0.0061	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Dibenz(a,h)anthracene	0.95		0.036	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Dibenzofuran	0.50		0.36	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Diethyl phthalate	0.36	U	0.36	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Dimethyl phthalate	0.36	U	0.36	0.082	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Di-n-butyl phthalate	0.36	U	0.36	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Fluorene	0.77		0.36	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachlorobenzene	0.036	U	0.036	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachlorobutadiene	0.073	U	0.073	0.0077	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.032	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Hexachloroethane	0.036	U	0.036	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Indeno[1,2,3-cd]pyrene	4.2		0.036	0.014	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Isophorone	0.14	U	0.14	0.10	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Naphthalene	0.37		0.36	0.0062	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Nitrobenzene	0.036	U	0.036	0.020	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1

Client Sample ID: SB-01_0-2_20221005

Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1

Matrix: Solid
Percent Solids: 91.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	0.36	U	0.36	0.030	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Pentachlorophenol	0.29	U	0.29	0.074	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1
Phenol	0.36	U	0.36	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*10 - 123*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
2-Fluorobiphenyl	*55*		*22 - 122*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
2-Fluorophenol (Surr)	*50*		*18 - 123*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
Nitrobenzene-d5 (Surr)	*49*		*16 - 125*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
Phenol-d5 (Surr)	*51*		*23 - 120*	*10/07/22 10:42*	*10/08/22 08:36*	*1*
Terphenyl-d14 (Surr)	*64*		*25 - 126*	*10/07/22 10:42*	*10/08/22 08:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**18**		1.8	0.063	mg/Kg	☼	10/07/22 10:42	10/09/22 05:30	5
Phenanthrene	**16**		1.8	0.032	mg/Kg	☼	10/07/22 10:42	10/09/22 05:30	5
Pyrene	**17**		1.8	0.045	mg/Kg	☼	10/07/22 10:42	10/09/22 05:30	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
4,4'-DDE	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
4,4'-DDT	**0.0033**	**J**	0.0073	0.0013	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Aldrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
alpha-BHC	0.0022	U	0.0022	0.00074	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
beta-BHC	0.0022	U	0.0022	0.00082	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Chlordane (technical)	0.073	U	0.073	0.018	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
cis-Chlordane	0.0073	U	0.0073	0.0012	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Dieldrin	**0.0020**	**J**	0.0022	0.00095	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endosulfan I	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endosulfan II	0.0073	U	0.0073	0.0019	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endosulfan sulfate	0.0073	U	0.0073	0.00091	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endrin	0.0073	U	0.0073	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endrin aldehyde	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Endrin ketone	0.0073	U	0.0073	0.0014	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00067	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Heptachlor	0.0073	U	0.0073	0.00086	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Heptachlor epoxide	0.0073	U	0.0073	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Methoxychlor	0.0073	U	0.0073	0.0017	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1
Toxaphene	0.073	U	0.073	0.026	mg/Kg	☼	10/07/22 11:51	10/10/22 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:14*	*1*
DCB Decachlorobiphenyl	*84*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:14*	*1*
Tetrachloro-m-xylene	*70*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:14*	*1*
Tetrachloro-m-xylene	*64*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:14*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1

Client Sample ID: SB-01_0-2_20221005
Date Collected: 10/05/22 08:10
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-1
Matrix: Solid
Percent Solids: 91.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1232	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1242	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1248	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1254	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1260	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor-1262	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Aroclor 1268	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1
Polychlorinated biphenyls, Total	0.073	U	0.073	0.019	mg/Kg	☼	10/07/22 11:56	10/10/22 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*
DCB Decachlorobiphenyl	*96*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*
Tetrachloro-m-xylene	*83*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*
Tetrachloro-m-xylene	*86*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:08*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5960**		17.3	4.8	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Antimony	**0.25**	**J**	0.87	0.13	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Arsenic	**2.2**		0.87	0.089	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Barium	**35.1**		1.7	0.13	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Beryllium	**0.32**	**J**	0.35	0.049	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Cadmium	**0.098**	**J**	0.87	0.098	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Calcium	**5840**		86.6	15.3	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Chromium	**16.7**		1.7	0.79	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Cobalt	**5.2**		1.7	0.13	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Copper	**15.2**		1.7	0.32	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Iron	**10500**		51.9	17.5	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Lead	**19.1**		0.52	0.17	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Magnesium	**2460**		86.6	8.8	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Manganese	**338**		3.5	0.35	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Nickel	**12.1**		1.7	0.41	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Potassium	**714**		86.6	14.0	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Selenium	1.1	U	1.1	0.11	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Silver	0.35	U	0.35	0.077	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Sodium	**152**		86.6	39.6	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Thallium	**0.058**	**J**	0.35	0.035	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Vanadium	**21.8**		1.7	0.18	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1
Zinc	**28.9**		6.9	2.6	mg/Kg	☼	10/07/22 19:45	10/10/22 14:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.017	0.0082	mg/Kg	☼	10/10/22 00:23	10/10/22 03:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.1	U	2.1	0.89	mg/Kg	☼	10/10/22 08:35	10/10/22 11:45	1
Percent Moisture (EPA Moisture)	**8.7**		1.0	1.0	%			10/10/22 19:01	1
Percent Solids (EPA Moisture)	**91.3**		1.0	1.0	%			10/10/22 19:01	1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00028	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00027	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00047	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2,4-Trimethylbenzene	0.0013	U	0.0013	0.00032	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00060	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00047	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00055	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00041	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00048	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
2-Butanone (MEK)	0.0066	U	0.0066	0.00048	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
2-Hexanone	0.0066	U	0.0066	0.0022	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
4-Methyl-2-pentanone (MIBK)	0.0066	U	0.0066	0.0020	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Acetone	0.16		0.0079	0.0075	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Benzene	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Bromoform	0.0013	U	0.0013	0.00056	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Bromomethane	0.0026	U	0.0026	0.0013	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Carbon disulfide	0.0013	U *	0.0013	0.00035	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Carbon tetrachloride	0.0013	U	0.0013	0.00051	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chlorobenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chlorobromomethane	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chlorodibromomethane	0.0013	U	0.0013	0.00025	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chloroethane	0.0013	U	0.0013	0.00068	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chloroform	0.0013	U	0.0013	0.0013	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Chloromethane	0.0013	U	0.0013	0.00057	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00047	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Cyclohexane	0.0013	U	0.0013	0.00029	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Dichlorobromomethane	0.0013	U	0.0013	0.00034	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00044	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Ethylbenzene	0.0013	U	0.0013	0.00026	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Ethylene Dibromide	0.0013	U	0.0013	0.00024	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Isopropylbenzene	0.0013	U	0.0013	0.00037	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methyl acetate	0.0066	U	0.0066	0.0056	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00067	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methylcyclohexane	0.0013	U	0.0013	0.00065	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Methylene Chloride	0.0026	U	0.0026	0.0015	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
n-Butylbenzene	0.0013	U	0.0013	0.00039	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
N-Propylbenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
o-Xylene	0.0013	U	0.0013	0.00025	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
sec-Butylbenzene	0.0013	U	0.0013	0.00038	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Styrene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0013	U	0.0013	0.00036	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Tetrachloroethene	**0.0020**		0.0013	0.00040	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Toluene	0.0013	U	0.0013	0.00031	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00032	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00035	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Trichloroethene	0.0013	U	0.0013	0.00042	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00053	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Vinyl chloride	0.0013	U	0.0013	0.00072	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1
Xylenes, Total	0.0026	U	0.0026	0.00023	mg/Kg	☼	10/06/22 16:37	10/08/22 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 145*	*10/06/22 16:37*	*10/08/22 11:50*	*1*
4-Bromofluorobenzene	*115*		*75 - 139*	*10/06/22 16:37*	*10/08/22 11:50*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*	*10/06/22 16:37*	*10/08/22 11:50*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*	*10/06/22 16:37*	*10/08/22 11:50*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
1,2,4,5-Tetrachlorobenzene	0.34	U	0.34	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
1,4-Dioxane	0.034	U	0.034	0.030	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,2'-oxybis[1-chloropropane]	0.34	U	0.34	0.0061	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,3,4,6-Tetrachlorophenol	0.34	U	0.34	0.023	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4,5-Trichlorophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.043	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dichlorophenol	0.14	U	0.14	0.022	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dimethylphenol	0.34	U	0.34	0.040	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dinitrophenol	0.27	U	0.27	0.17	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,4-Dinitrotoluene	0.068	U	0.068	0.036	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2,6-Dinitrotoluene	0.068	U	0.068	0.024	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Chloronaphthalene	0.34	U	0.34	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Chlorophenol	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Methylnaphthalene	0.34	U	0.34	0.0095	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Methylphenol	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Nitroaniline	0.34	U	0.34	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
2-Nitrophenol	0.34	U	0.34	0.034	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
3 & 4 Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.051	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
3-Nitroaniline	0.34	U	0.34	0.080	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Bromophenyl phenyl ether	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Chloro-3-methylphenol	0.34	U	0.34	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Chloroaniline	0.34	U	0.34	0.060	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Chlorophenyl phenyl ether	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Methylphenol	0.34	U	0.34	0.021	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Nitroaniline	0.34	U	0.34	0.039	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
4-Nitrophenol	0.68	U	0.68	0.055	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Acenaphthene	0.34	U	0.34	0.0096	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Acenaphthylene	0.34	U	0.34	0.0097	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Acetophenone	0.34	U	0.34	0.017	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.34	U	0.34	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Atrazine	0.14	U	0.14	0.020	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzaldehyde	0.34	U	0.34	0.056	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[a]anthracene	0.034	U	0.034	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[a]pyrene	0.034	U	0.034	0.0090	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[b]fluoranthene	0.034	U	0.034	0.0087	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[g,h,i]perylene	0.34	U	0.34	0.010	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Benzo[k]fluoranthene	0.034	U	0.034	0.0066	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Bis(2-chloroethoxy)methane	0.34	U	0.34	0.026	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Bis(2-chloroethyl)ether	0.034	U	0.034	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Bis(2-ethylhexyl) phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Butyl benzyl phthalate	0.34	U	0.34	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Caprolactam	0.34	U	0.34	0.053	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Carbazole	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Chrysene	0.34	U	0.34	0.0057	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Dibenz(a,h)anthracene	0.034	U	0.034	0.015	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Dibenzofuran	0.34	U	0.34	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Diethyl phthalate	0.34	U	0.34	0.011	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Dimethyl phthalate	0.34	U	0.34	0.077	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Di-n-butyl phthalate	0.34	U	0.34	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Di-n-octyl phthalate	0.34	U	0.34	0.018	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Fluoranthene	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Fluorene	0.34	U	0.34	0.0099	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachlorobenzene	0.034	U	0.034	0.016	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachlorobutadiene	0.068	U	0.068	0.0072	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachlorocyclopentadiene	0.34	U	0.34	0.030	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Hexachloroethane	0.034	U	0.034	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Indeno[1,2,3-cd]pyrene	0.034	U	0.034	0.013	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Isophorone	0.14	U	0.14	0.098	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Naphthalene	0.34	U	0.34	0.0058	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Nitrobenzene	0.034	U	0.034	0.019	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
N-Nitrosodi-n-propylamine	0.034	U	0.034	0.025	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
N-Nitrosodiphenylamine	0.34	U	0.34	0.028	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Pentachlorophenol	0.27	U	0.27	0.069	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Phenanthrene	0.34	U	0.34	0.0059	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Phenol	0.34	U	0.34	0.012	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1
Pyrene	0.34	U	0.34	0.0084	mg/Kg	☼	10/07/22 10:42	10/08/22 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 123*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
2-Fluorobiphenyl	*48*		*22 - 122*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
2-Fluorophenol (Surr)	*47*		*18 - 123*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
Nitrobenzene-d5 (Surr)	*44*		*16 - 125*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
Phenol-d5 (Surr)	*45*		*23 - 120*	*10/07/22 10:42*	*10/08/22 06:45*	*1*
Terphenyl-d14 (Surr)	*57*		*25 - 126*	*10/07/22 10:42*	*10/08/22 06:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0069	U	0.0069	0.0012	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
4,4'-DDE	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1

Client Sample ID: SB-01_31-33_20221005

Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2

Matrix: Solid
Percent Solids: 97.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Aldrin	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
alpha-BHC	0.0020	U	0.0020	0.00070	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
beta-BHC	0.0020	U	0.0020	0.00077	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Chlordane (technical)	0.069	U	0.069	0.017	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
cis-Chlordane	0.0069	U	0.0069	0.0011	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
delta-BHC	0.0020	U	0.0020	0.00042	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Dieldrin	0.0020	U	0.0020	0.00089	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endosulfan I	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endosulfan II	0.0069	U	0.0069	0.0018	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endosulfan sulfate	0.0069	U	0.0069	0.00086	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endrin	0.0069	U	0.0069	0.00098	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endrin aldehyde	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Endrin ketone	0.0069	U	0.0069	0.0013	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00063	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Heptachlor	0.0069	U	0.0069	0.00081	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Heptachlor epoxide	0.0069	U	0.0069	0.0010	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Methoxychlor	0.0069	U	0.0069	0.0016	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1
Toxaphene	0.069	U	0.069	0.025	mg/Kg	☼	10/07/22 11:51	10/10/22 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:26*	*1*
DCB Decachlorobiphenyl	*43*		*43 - 150*	*10/07/22 11:51*	*10/10/22 09:26*	*1*
Tetrachloro-m-xylene	*47*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:26*	*1*
Tetrachloro-m-xylene	*42*		*26 - 137*	*10/07/22 11:51*	*10/10/22 09:26*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1221	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1232	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1242	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1248	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1254	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1260	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor-1262	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Aroclor 1268	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1
Polychlorinated biphenyls, Total	0.069	U	0.069	0.018	mg/Kg	☼	10/07/22 11:56	10/10/22 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*
Tetrachloro-m-xylene	*88*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*
Tetrachloro-m-xylene	*87*		*42 - 150*	*10/07/22 11:56*	*10/10/22 11:25*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2340**		16.1	4.4	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Antimony	0.81	U	0.81	0.12	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Arsenic	**0.62**	**J**	0.81	0.083	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1

Client Sample ID: SB-01_31-33_20221005

Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2

Matrix: Solid
Percent Solids: 97.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	20.7		1.6	0.12	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Beryllium	0.12	J	0.32	0.046	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Cadmium	0.81	U	0.81	0.091	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Calcium	7590		80.7	14.3	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Chromium	8.0		1.6	0.73	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Cobalt	2.9		1.6	0.12	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Copper	6.8		1.6	0.30	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Iron	5240		48.4	16.3	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Lead	2.8		0.48	0.16	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Magnesium	4370		80.7	8.2	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Manganese	183		3.2	0.33	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Nickel	5.7		1.6	0.38	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Potassium	383		80.7	13.1	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Selenium	1.0	U	1.0	0.10	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Silver	0.32	U	0.32	0.072	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Sodium	117		80.7	36.9	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Thallium	0.32	U	0.32	0.033	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Vanadium	7.4		1.6	0.17	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1
Zinc	10.2		6.5	2.5	mg/Kg	☼	10/07/22 19:45	10/10/22 14:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0076	mg/Kg	☼	10/10/22 00:23	10/10/22 03:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	2.0	U	2.0	0.87	mg/Kg	☼	10/10/22 08:35	10/10/22 11:45	1
Percent Moisture (EPA Moisture)	1.8		1.0	1.0	%			10/10/22 19:01	1
Percent Solids (EPA Moisture)	98.2		1.0	1.0	%			10/10/22 19:01	1

Surrogate Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(72-145)	(75-139)	(73-139)	(80-120)
460-266752-1	SB-02_0-2_20221003	109	104	99	110
460-266752-2	SB-02_31-33_20221003	109	101	97	106
460-266752-3	SB-03_0-2_20221003	108	104	97	110
460-266752-4	SB-03_31-33_20221003	98	93	87	99
460-266752-5	SB-04_0-2_20221003	115	111	106	118
460-266752-6	SB-04_32-34_20221003	105	102	96	109
460-266752-7	SB-07_0-2_20221003	115	112	104	116
460-266752-8	SB-07_32-34_20221003	109	112	97	116
460-266826-1	SB-05_0-2_20221004	119	116	100	116
460-266826-2	SB-05_29-31_20221004	111	109	96	110
460-266826-3	SB-06_0-2_20221004	115	116	101	116
460-266826-4	SB-06_29-31_20221004	108	107	93	105
460-266877-1	SB-01_0-2_20221005	97	111	101	103
460-266877-2	SB-01_31-33_20221005	103	115	100	111
LB3 460-870066/1-A	Method Blank	83	83	79	90
LB3 460-870338/1-A	Method Blank	111	112	107	96
LB3 460-870524/1-A	Method Blank	101	118	100	111
LCS 460-870087/3	Lab Control Sample	105	106	96	115
LCS 460-870199/4	Lab Control Sample	88	84	81	95
LCS 460-870277/4	Lab Control Sample	102	103	93	111
LCS 460-870378/4	Lab Control Sample	112	114	101	95
LCS 460-870379/4	Lab Control Sample	107	104	97	114
LCS 460-870501/3	Lab Control Sample	101	100	92	111
LCS 460-870690/5	Lab Control Sample	87	98	84	96
LCS 460-870776/4	Lab Control Sample	94	109	92	103
LCSD 460-870087/4	Lab Control Sample Dup	100	101	92	109
LCSD 460-870199/6	Lab Control Sample Dup	102	100	94	111
LCSD 460-870277/5	Lab Control Sample Dup	101	100	90	107
LCSD 460-870378/5	Lab Control Sample Dup	110	113	101	96
LCSD 460-870379/5	Lab Control Sample Dup	90	93	81	98
LCSD 460-870501/5	Lab Control Sample Dup	101	107	90	114
LCSD 460-870690/6	Lab Control Sample Dup	100	112	96	108
LCSD 460-870776/5	Lab Control Sample Dup	95	110	93	102
MB 460-870087/7	Method Blank	106	101	94	106
MB 460-870199/8	Method Blank	92	86	85	92
MB 460-870277/8	Method Blank	109	103	97	109
MB 460-870378/9	Method Blank	113	115	106	97
MB 460-870379/7	Method Blank	102	99	92	103
MB 460-870501/8	Method Blank	92	103	85	104
MB 460-870690/9	Method Blank	96	112	96	104
MB 460-870776/8	Method Blank	97	112	99	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (10-123)	FBP (22-122)	2FP (18-123)	NBZ (16-125)	PHL (23-120)	TPHL (25-126)
460-266324-F-1-A MS	Matrix Spike	64	55	55	53	55	66
460-266324-F-1-B MSD	Matrix Spike Duplicate	69	60	59	57	59	70
460-266752-1	SB-02_0-2_20221003	67	84	72	74	70	87
460-266752-2	SB-02_31-33_20221003	63	82	71	70	68	88
460-266752-3	SB-03_0-2_20221003	67	83	72	73	69	85
460-266752-4	SB-03_31-33_20221003	58	80	72	70	69	82
460-266752-5	SB-04_0-2_20221003	66	81	72	71	69	84
460-266752-6	SB-04_32-34_20221003	67	81	72	70	68	85
460-266752-7	SB-07_0-2_20221003	68	81	69	71	67	81
460-266752-8	SB-07_32-34_20221003	54	80	68	69	66	84
460-266779-B-1-B MS	Matrix Spike	85	79	77	72	75	89
460-266779-B-1-C MSD	Matrix Spike Duplicate	86	78	75	70	74	85
460-266802-E-4-A MS	Matrix Spike	103	104	89	92	89	109
460-266802-E-4-B MSD	Matrix Spike Duplicate	98	97	79	85	80	104
460-266826-1	SB-05_0-2_20221004	75	80	69	71	68	86
460-266826-1 - DL	SB-05_0-2_20221004	112	94	84	85	86	101
460-266826-2	SB-05_29-31_20221004	88	85	70	74	69	91
460-266826-3	SB-06_0-2_20221004	92	89	75	79	77	98
460-266826-4	SB-06_29-31_20221004	88	92	77	80	77	97
460-266877-1	SB-01_0-2_20221005	60	55	50	49	51	64
460-266877-2	SB-01_31-33_20221005	44	48	47	44	45	57
LCS 460-870137/2-A	Lab Control Sample	87	79	73	72	73	84
LCS 460-870226/2-A	Lab Control Sample	93	96	83	88	81	102
LCS 460-870659/2-A	Lab Control Sample	117	100	91	92	93	112
LCSD 460-870137/3-A	Lab Control Sample Dup	91	81	76	74	75	86
LCSD 460-870226/3-A	Lab Control Sample Dup	97	100	87	91	85	106
LCSD 460-870659/3-A	Lab Control Sample Dup	119	101	91	91	94	115
MB 460-870137/1-A	Method Blank	85	78	70	72	71	86
MB 460-870226/1-A	Method Blank	95	97	82	88	81	105
MB 460-870659/1-A	Method Blank	73	67	63	62	62	75

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (43-150)	DCBP2 (43-150)	TCX1 (26-137)	TCX2 (26-137)
460-266735-E-8-F MS	Matrix Spike	61	63	72	72
460-266735-F-8-E MSD	Matrix Spike Duplicate	71	70	80	79
460-266752-1	SB-02_0-2_20221003	69	79	88	93
460-266752-2	SB-02_31-33_20221003	75	80	91	97
460-266752-3	SB-03_0-2_20221003	69	79	84	89
460-266752-4	SB-03_31-33_20221003	74	80	85	91

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(43-150)	(43-150)	(26-137)	(26-137)
460-266752-5	SB-04_0-2_20221003	64	74	74	83
460-266752-6	SB-04_32-34_20221003	78	82	91	95
460-266752-7	SB-07_0-2_20221003	65	75	81	89
460-266752-8	SB-07_32-34_20221003	63	66	74	80
460-266794-E-1-L MS	Matrix Spike	100	58	62	68
460-266794-E-1-M MSD	Matrix Spike Duplicate	60	54	50	57
460-266826-1	SB-05_0-2_20221004	60	57	59	68
460-266826-2	SB-05_29-31_20221004	60	74	71	80
460-266826-3	SB-06_0-2_20221004	69	64	67	73
460-266826-4	SB-06_29-31_20221004	56	66	59	65
460-266877-1	SB-01_0-2_20221005	84	70	64	70
460-266877-2	SB-01_31-33_20221005	43	60	42	47
LCS 460-870105/2-A	Lab Control Sample	63	66	70	75
LCS 460-870258/2-A	Lab Control Sample	70	72	75	79
LCS 460-870672/2-A	Lab Control Sample	88	91	95	98
LCSD 460-870105/3-A	Lab Control Sample Dup	61	65	74	77
LCSD 460-870258/3-A	Lab Control Sample Dup	70	74	78	81
LCSD 460-870672/3-A	Lab Control Sample Dup	84	89	93	98
MB 460-870105/1-A	Method Blank	74	77	77	83
MB 460-870258/1-A	Method Blank	72	74	77	85
MB 460-870672/1-A	Method Blank	80	83	41	92

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(42-150)	(42-150)
460-266735-E-8-D MS	Matrix Spike	101	96	94	93
460-266735-F-8-D MSD	Matrix Spike Duplicate	104	104	96	99
460-266752-1	SB-02_0-2_20221003	93	95	86	91
460-266752-2	SB-02_31-33_20221003	98	101	93	100
460-266752-3	SB-03_0-2_20221003	94	96	86	91
460-266752-4	SB-03_31-33_20221003	91	87	85	86
460-266752-5	SB-04_0-2_20221003	91	90	82	86
460-266752-6	SB-04_32-34_20221003	88	86	81	84
460-266752-7	SB-07_0-2_20221003	85	87	81	85
460-266752-8	SB-07_32-34_20221003	83	82	78	82
460-266794-E-1-I MS	Matrix Spike	111	113	94	90
460-266794-E-1-J MSD	Matrix Spike Duplicate	110	107	92	88
460-266826-1	SB-05_0-2_20221004	103	107	94	84
460-266826-2	SB-05_29-31_20221004	101	105	102	109
460-266826-3	SB-06_0-2_20221004	114	110	96	95
460-266826-4	SB-06_29-31_20221004	100	101	99	85
460-266877-1	SB-01_0-2_20221005	96	93	86	83
460-266877-2	SB-01_31-33_20221005	91	87	87	88
LCS 460-870100/2-A	Lab Control Sample	117	126	95	119

Surrogate Summary

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (10-150)	DCBP2 (10-150)	TCX1 (42-150)	TCX2 (42-150)
LCS 460-870255/2-A	Lab Control Sample	90	96	92	99
LCS 460-870673/2-A	Lab Control Sample	75	69	72	72
LCSD 460-870100/3-A	Lab Control Sample Dup	109	106	99	102
LCSD 460-870255/3-A	Lab Control Sample Dup	95	99	93	81
LCSD 460-870673/3-A	Lab Control Sample Dup	85	81	79	78
MB 460-870100/1-A	Method Blank	105	101	92	97
MB 460-870255/1-A	Method Blank	103	103	97	87
MB 460-870673/1-A	Method Blank	95	89	89	90

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-870066/1-A
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870066

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/04/22 13:25	10/05/22 01:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-870066/1-A
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870066

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg		10/04/22 13:25	10/05/22 01:13	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg		10/04/22 13:25	10/05/22 01:13	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*72 - 145*	*10/04/22 13:25*	*10/05/22 01:13*	*1*
4-Bromofluorobenzene	*83*		*75 - 139*	*10/04/22 13:25*	*10/05/22 01:13*	*1*
Dibromofluoromethane (Surr)	*79*		*73 - 139*	*10/04/22 13:25*	*10/05/22 01:13*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*	*10/04/22 13:25*	*10/05/22 01:13*	*1*

Lab Sample ID: MB 460-870087/7
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/04/22 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/04/22 18:32	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/04/22 18:32	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/04/22 18:32	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/04/22 18:32	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/04/22 18:32	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/04/22 18:32	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/04/22 18:32	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/04/22 18:32	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/04/22 18:32	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/04/22 18:32	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/04/22 18:32	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/04/22 18:32	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/04/22 18:32	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/04/22 18:32	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/04/22 18:32	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/04/22 18:32	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/04/22 18:32	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/04/22 18:32	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/04/22 18:32	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870087/7
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/04/22 18:32	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/04/22 18:32	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/04/22 18:32	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/04/22 18:32	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/04/22 18:32	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/04/22 18:32	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/04/22 18:32	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/04/22 18:32	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/04/22 18:32	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/04/22 18:32	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/04/22 18:32	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/04/22 18:32	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/04/22 18:32	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/04/22 18:32	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/04/22 18:32	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/04/22 18:32	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/04/22 18:32	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/04/22 18:32	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/04/22 18:32	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/04/22 18:32	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/04/22 18:32	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/04/22 18:32	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/04/22 18:32	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/04/22 18:32	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/04/22 18:32	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/04/22 18:32	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/04/22 18:32	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/04/22 18:32	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/04/22 18:32	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/04/22 18:32	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/04/22 18:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 145*		*10/04/22 18:32*	*1*
4-Bromofluorobenzene	*101*		*75 - 139*		*10/04/22 18:32*	*1*
Dibromofluoromethane (Surr)	*94*		*73 - 139*		*10/04/22 18:32*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/04/22 18:32*	*1*

Lab Sample ID: LCS 460-870087/3
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		111	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0168		mg/Kg		84	75 - 141
1,1,2-Trichloroethane	0.0200	0.0201		mg/Kg		101	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870087/3
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0200	0.0189		mg/Kg		95	77 - 129
1,1-Dichloroethene	0.0200	0.0168		mg/Kg		84	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0186		mg/Kg		93	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0186		mg/Kg		93	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0211		mg/Kg		106	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0181		mg/Kg		90	60 - 124
1,2-Dichlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120
1,2-Dichloroethane	0.0200	0.0171		mg/Kg		86	75 - 123
1,2-Dichloropropane	0.0200	0.0197		mg/Kg		98	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0212		mg/Kg		106	79 - 120
1,3-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120
1,4-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120
2-Butanone (MEK)	0.100	0.0823		mg/Kg		82	75 - 120
2-Hexanone	0.100	0.0856		mg/Kg		86	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0869		mg/Kg		87	80 - 122
Acetone	0.100	0.0916		mg/Kg		92	63 - 131
Benzene	0.0200	0.0211		mg/Kg		106	80 - 123
Bromoform	0.0200	0.0143		mg/Kg		72	70 - 125
Bromomethane	0.0200	0.0149		mg/Kg		75	64 - 150
Carbon disulfide	0.0200	0.0166		mg/Kg		83	76 - 120
Carbon tetrachloride	0.0200	0.0153		mg/Kg		77	77 - 121
Chlorobenzene	0.0200	0.0189		mg/Kg		95	80 - 120
Chlorobromomethane	0.0200	0.0163		mg/Kg		81	76 - 127
Chlorodibromomethane	0.0200	0.0170		mg/Kg		85	80 - 120
Chloroethane	0.0200	0.0165		mg/Kg		83	68 - 132
Chloroform	0.0200	0.0181		mg/Kg		90	79 - 126
Chloromethane	0.0200	0.0175		mg/Kg		87	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0171		mg/Kg		86	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0198		mg/Kg		99	80 - 120
Cyclohexane	0.0200	0.0187		mg/Kg		93	70 - 132
Dichlorobromomethane	0.0200	0.0167		mg/Kg		84	73 - 124
Dichlorodifluoromethane	0.0200	0.0151		mg/Kg		76	62 - 150
Ethylbenzene	0.0200	0.0194		mg/Kg		97	76 - 120
Ethylene Dibromide	0.0200	0.0182		mg/Kg		91	79 - 120
Isopropylbenzene	0.0200	0.0193		mg/Kg		97	80 - 120
Methyl acetate	0.0400	0.0343		mg/Kg		86	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		82	80 - 125
Methylcyclohexane	0.0200	0.0186		mg/Kg		93	70 - 133
Methylene Chloride	0.0200	0.0170		mg/Kg		85	76 - 120
m-Xylene & p-Xylene	0.0200	0.0189		mg/Kg		95	80 - 120
n-Butylbenzene	0.0200	0.0228		mg/Kg		114	68 - 150
N-Propylbenzene	0.0200	0.0212		mg/Kg		106	78 - 130
o-Xylene	0.0200	0.0190		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0200	0.0215		mg/Kg		108	78 - 136
Styrene	0.0200	0.0184		mg/Kg		92	80 - 120
tert-Butylbenzene	0.0200	0.0201		mg/Kg		101	80 - 128
Tetrachloroethene	0.0200	0.0178		mg/Kg		89	78 - 123
Toluene	0.0200	0.0204		mg/Kg		102	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0177		mg/Kg		89	78 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870087/3
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		91	80 - 120
Trichloroethene	0.0200	0.0178		mg/Kg		89	79 - 120
Trichlorofluoromethane	0.0200	0.0156		mg/Kg		78	76 - 142
Vinyl chloride	0.0200	0.0189		mg/Kg		95	72 - 131
Xylenes, Total	0.0400	0.0379		mg/Kg		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 145*
4-Bromofluorobenzene	*106*		*75 - 139*
Dibromofluoromethane (Surr)	*96*		*73 - 139*
Toluene-d8 (Surr)	*115*		*80 - 120*

Lab Sample ID: LCSD 460-870087/4
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0165		mg/Kg		83	78 - 120	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.0225		mg/Kg		113	66 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0172		mg/Kg		86	75 - 141	2	30
1,1,2-Trichloroethane	0.0200	0.0198		mg/Kg		99	80 - 120	2	30
1,1-Dichloroethane	0.0200	0.0191		mg/Kg		95	77 - 129	1	30
1,1-Dichloroethene	0.0200	0.0170		mg/Kg		85	70 - 132	1	30
1,2,3-Trichlorobenzene	0.0200	0.0180		mg/Kg		90	44 - 120	3	30
1,2,4-Trichlorobenzene	0.0200	0.0184		mg/Kg		92	68 - 150	1	30
1,2,4-Trimethylbenzene	0.0200	0.0208		mg/Kg		104	79 - 120	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0178		mg/Kg		89	60 - 124	2	30
1,2-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120	1	30
1,2-Dichloroethane	0.0200	0.0176		mg/Kg		88	75 - 123	3	30
1,2-Dichloropropane	0.0200	0.0195		mg/Kg		98	73 - 124	1	30
1,3,5-Trimethylbenzene	0.0200	0.0205		mg/Kg		103	79 - 120	3	30
1,3-Dichlorobenzene	0.0200	0.0189		mg/Kg		94	80 - 120	1	30
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		92	80 - 120	2	30
2-Butanone (MEK)	0.100	0.0804		mg/Kg		80	75 - 120	2	30
2-Hexanone	0.100	0.0824		mg/Kg		82	70 - 128	4	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0842		mg/Kg		84	80 - 122	3	30
Acetone	0.100	0.0894		mg/Kg		89	63 - 131	2	30
Benzene	0.0200	0.0212		mg/Kg		106	80 - 123	0	30
Bromoform	0.0200	0.0147		mg/Kg		73	70 - 125	2	30
Bromomethane	0.0200	0.0154		mg/Kg		77	64 - 150	3	30
Carbon disulfide	0.0200	0.0168		mg/Kg		84	76 - 120	1	30
Carbon tetrachloride	0.0200	0.0161		mg/Kg		80	77 - 121	5	30
Chlorobenzene	0.0200	0.0187		mg/Kg		93	80 - 120	1	30
Chlorobromomethane	0.0200	0.0166		mg/Kg		83	76 - 127	2	30
Chlorodibromomethane	0.0200	0.0167		mg/Kg		83	80 - 120	2	30
Chloroethane	0.0200	0.0170		mg/Kg		85	68 - 132	3	30
Chloroform	0.0200	0.0179		mg/Kg		89	79 - 126	1	30
Chloromethane	0.0200	0.0192		mg/Kg		96	63 - 130	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870087/4
Matrix: Solid
Analysis Batch: 870087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			0.0200	0.0168		mg/Kg		84	80 - 123	2	30
cis-1,3-Dichloropropene			0.0200	0.0196		mg/Kg		98	80 - 120	1	30
Cyclohexane			0.0200	0.0191		mg/Kg		95	70 - 132	2	30
Dichlorobromomethane			0.0200	0.0168		mg/Kg		84	73 - 124	0	30
Dichlorodifluoromethane			0.0200	0.0179		mg/Kg		90	62 - 150	17	30
Ethylbenzene			0.0200	0.0191		mg/Kg		95	76 - 120	2	30
Ethylene Dibromide			0.0200	0.0179		mg/Kg		90	79 - 120	1	30
Isopropylbenzene			0.0200	0.0192		mg/Kg		96	80 - 120	1	30
Methyl acetate			0.0400	0.0406		mg/Kg		101	58 - 143	17	30
Methyl tert-butyl ether			0.0200	0.0167		mg/Kg		83	80 - 125	1	30
Methylcyclohexane			0.0200	0.0185		mg/Kg		93	70 - 133	1	30
Methylene Chloride			0.0200	0.0168		mg/Kg		84	76 - 120	1	30
m-Xylene & p-Xylene			0.0200	0.0188		mg/Kg		94	80 - 120	0	30
n-Butylbenzene			0.0200	0.0218		mg/Kg		109	68 - 150	5	30
N-Propylbenzene			0.0200	0.0205		mg/Kg		102	78 - 130	3	30
o-Xylene			0.0200	0.0191		mg/Kg		96	80 - 120	1	30
sec-Butylbenzene			0.0200	0.0210		mg/Kg		105	78 - 136	3	30
Styrene			0.0200	0.0179		mg/Kg		89	80 - 120	3	30
tert-Butylbenzene			0.0200	0.0196		mg/Kg		98	80 - 128	3	30
Tetrachloroethene			0.0200	0.0176		mg/Kg		88	78 - 123	1	30
Toluene			0.0200	0.0201		mg/Kg		101	80 - 120	1	30
trans-1,2-Dichloroethene			0.0200	0.0176		mg/Kg		88	78 - 120	1	30
trans-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		89	80 - 120	3	30
Trichloroethene			0.0200	0.0175		mg/Kg		87	79 - 120	2	30
Trichlorofluoromethane			0.0200	0.0167		mg/Kg		83	76 - 142	7	30
Vinyl chloride			0.0200	0.0197		mg/Kg		98	72 - 131	4	30
Xylenes, Total			0.0400	0.0380		mg/Kg		95	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 145*
4-Bromofluorobenzene	*101*		*75 - 139*
Dibromofluoromethane (Surr)	*92*		*73 - 139*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: MB 460-870199/8
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 11:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 11:02	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 11:02	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 11:02	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 11:02	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870199/8
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/05/22 11:02	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 11:02	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 11:02	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/05/22 11:02	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 11:02	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/05/22 11:02	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/05/22 11:02	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/05/22 11:02	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/05/22 11:02	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/05/22 11:02	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 11:02	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/05/22 11:02	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/05/22 11:02	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 11:02	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/05/22 11:02	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 11:02	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 11:02	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/05/22 11:02	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/05/22 11:02	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/05/22 11:02	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 11:02	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 11:02	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/05/22 11:02	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 11:02	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/05/22 11:02	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/05/22 11:02	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 11:02	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/05/22 11:02	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/05/22 11:02	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/05/22 11:02	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/05/22 11:02	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/05/22 11:02	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 11:02	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 11:02	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 11:02	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 11:02	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 11:02	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 11:02	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 11:02	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 11:02	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 11:02	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 11:02	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/05/22 11:02	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/05/22 11:02	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/05/22 11:02	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/05/22 11:02	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		72 - 145		10/05/22 11:02	1
4-Bromofluorobenzene	86		75 - 139		10/05/22 11:02	1
Dibromofluoromethane (Surr)	85		73 - 139		10/05/22 11:02	1
Toluene-d8 (Surr)	92		80 - 120		10/05/22 11:02	1

Lab Sample ID: LCS 460-870199/4
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		112	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0179		mg/Kg		89	75 - 141
1,1,2-Trichloroethane	0.0200	0.0211		mg/Kg		105	80 - 120
1,1-Dichloroethane	0.0200	0.0193		mg/Kg		96	77 - 129
1,1-Dichloroethene	0.0200	0.0176		mg/Kg		88	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0168		mg/Kg		84	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0160		mg/Kg		80	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0190		mg/Kg		95	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0164		mg/Kg		82	60 - 124
1,2-Dichlorobenzene	0.0200	0.0179		mg/Kg		90	80 - 120
1,2-Dichloroethane	0.0200	0.0179		mg/Kg		89	75 - 123
1,2-Dichloropropane	0.0200	0.0203		mg/Kg		102	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0193		mg/Kg		96	79 - 120
1,3-Dichlorobenzene	0.0200	0.0181		mg/Kg		91	80 - 120
1,4-Dichlorobenzene	0.0200	0.0176		mg/Kg		88	80 - 120
2-Butanone (MEK)	0.100	0.0765		mg/Kg		77	75 - 120
2-Hexanone	0.100	0.0820		mg/Kg		82	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0830		mg/Kg		83	80 - 122
Acetone	0.100	0.0913		mg/Kg		91	63 - 131
Benzene	0.0200	0.0213		mg/Kg		106	80 - 123
Bromoform	0.0200	0.0145		mg/Kg		73	70 - 125
Bromomethane	0.0200	0.0167		mg/Kg		84	64 - 150
Carbon disulfide	0.0200	0.0179		mg/Kg		89	76 - 120
Carbon tetrachloride	0.0200	0.0158		mg/Kg		79	77 - 121
Chlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120
Chlorobromomethane	0.0200	0.0160		mg/Kg		80	76 - 127
Chlorodibromomethane	0.0200	0.0165		mg/Kg		82	80 - 120
Chloroethane	0.0200	0.0199		mg/Kg		99	68 - 132
Chloroform	0.0200	0.0178		mg/Kg		89	79 - 126
Chloromethane	0.0200	0.0206		mg/Kg		103	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0175		mg/Kg		87	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0193		mg/Kg		97	80 - 120
Cyclohexane	0.0200	0.0184		mg/Kg		92	70 - 132
Dichlorobromomethane	0.0200	0.0170		mg/Kg		85	73 - 124
Dichlorodifluoromethane	0.0200	0.0187		mg/Kg		93	62 - 150
Ethylbenzene	0.0200	0.0187		mg/Kg		94	76 - 120
Ethylene Dibromide	0.0200	0.0181		mg/Kg		90	79 - 120
Isopropylbenzene	0.0200	0.0187		mg/Kg		93	80 - 120
Methyl acetate	0.0400	0.0445		mg/Kg		111	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		82	80 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870199/4
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylcyclohexane			0.0200	0.0174		mg/Kg		87	70 - 133		
Methylene Chloride			0.0200	0.0181		mg/Kg		91	76 - 120		
m-Xylene & p-Xylene			0.0200	0.0184		mg/Kg		92	80 - 120		
n-Butylbenzene			0.0200	0.0202		mg/Kg		101	68 - 150		
N-Propylbenzene			0.0200	0.0191		mg/Kg		96	78 - 130		
o-Xylene			0.0200	0.0180		mg/Kg		90	80 - 120		
sec-Butylbenzene			0.0200	0.0188		mg/Kg		94	78 - 136		
Styrene			0.0200	0.0179		mg/Kg		90	80 - 120		
tert-Butylbenzene			0.0200	0.0182		mg/Kg		91	80 - 128		
Tetrachloroethene			0.0200	0.0179		mg/Kg		89	78 - 123		
Toluene			0.0200	0.0198		mg/Kg		99	80 - 120		
trans-1,2-Dichloroethene			0.0200	0.0178		mg/Kg		89	78 - 120		
trans-1,3-Dichloropropene			0.0200	0.0180		mg/Kg		90	80 - 120		
Trichloroethene			0.0200	0.0177		mg/Kg		88	79 - 120		
Trichlorofluoromethane			0.0200	0.0182		mg/Kg		91	76 - 142		
Vinyl chloride			0.0200	0.0213		mg/Kg		106	72 - 131		
Xylenes, Total			0.0400	0.0364		mg/Kg		91	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 145*
4-Bromofluorobenzene	*84*		*75 - 139*
Dibromofluoromethane (Surr)	*81*		*73 - 139*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 460-870199/6
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0177		mg/Kg		88	78 - 120	5	30
1,1,2,2-Tetrachloroethane			0.0200	0.0237		mg/Kg		119	66 - 123	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0192		mg/Kg		96	75 - 141	7	30
1,1,2-Trichloroethane			0.0200	0.0212		mg/Kg		106	80 - 120	0	30
1,1-Dichloroethane			0.0200	0.0203		mg/Kg		101	77 - 129	5	30
1,1-Dichloroethene			0.0200	0.0191		mg/Kg		96	70 - 132	8	30
1,2,3-Trichlorobenzene			0.0200	0.0181		mg/Kg		91	44 - 120	8	30
1,2,4-Trichlorobenzene			0.0200	0.0184		mg/Kg		92	68 - 150	14	30
1,2,4-Trimethylbenzene			0.0200	0.0207		mg/Kg		103	79 - 120	8	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0173		mg/Kg		87	60 - 124	5	30
1,2-Dichlorobenzene			0.0200	0.0197		mg/Kg		99	80 - 120	10	30
1,2-Dichloroethane			0.0200	0.0188		mg/Kg		94	75 - 123	5	30
1,2-Dichloropropane			0.0200	0.0211		mg/Kg		106	73 - 124	4	30
1,3,5-Trimethylbenzene			0.0200	0.0210		mg/Kg		105	79 - 120	8	30
1,3-Dichlorobenzene			0.0200	0.0191		mg/Kg		96	80 - 120	5	30
1,4-Dichlorobenzene			0.0200	0.0190		mg/Kg		95	80 - 120	8	30
2-Butanone (MEK)			0.100	0.0812		mg/Kg		81	75 - 120	6	30
2-Hexanone			0.100	0.0840		mg/Kg		84	70 - 128	2	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0862		mg/Kg		86	80 - 122	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870199/6
Matrix: Solid
Analysis Batch: 870199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			0.100	0.0952		mg/Kg		95	63 - 131	4	30
Benzene			0.0200	0.0226		mg/Kg		113	80 - 123	6	30
Bromoform			0.0200	0.0148		mg/Kg		74	70 - 125	2	30
Bromomethane			0.0200	0.0166		mg/Kg		83	64 - 150	1	30
Carbon disulfide			0.0200	0.0190		mg/Kg		95	76 - 120	6	30
Carbon tetrachloride			0.0200	0.0169		mg/Kg		84	77 - 121	7	30
Chlorobenzene			0.0200	0.0196		mg/Kg		98	80 - 120	4	30
Chlorobromomethane			0.0200	0.0172		mg/Kg		86	76 - 127	8	30
Chlorodibromomethane			0.0200	0.0178		mg/Kg		89	80 - 120	8	30
Chloroethane			0.0200	0.0185		mg/Kg		93	68 - 132	7	30
Chloroform			0.0200	0.0192		mg/Kg		96	79 - 126	8	30
Chloromethane			0.0200	0.0199		mg/Kg		100	63 - 130	3	30
cis-1,2-Dichloroethene			0.0200	0.0184		mg/Kg		92	80 - 123	5	30
cis-1,3-Dichloropropene			0.0200	0.0202		mg/Kg		101	80 - 120	5	30
Cyclohexane			0.0200	0.0197		mg/Kg		99	70 - 132	7	30
Dichlorobromomethane			0.0200	0.0181		mg/Kg		90	73 - 124	6	30
Dichlorodifluoromethane			0.0200	0.0179		mg/Kg		89	62 - 150	4	30
Ethylbenzene			0.0200	0.0200		mg/Kg		100	76 - 120	7	30
Ethylene Dibromide			0.0200	0.0188		mg/Kg		94	79 - 120	4	30
Isopropylbenzene			0.0200	0.0202		mg/Kg		101	80 - 120	8	30
Methyl acetate			0.0400	0.0478		mg/Kg		119	58 - 143	7	30
Methyl tert-butyl ether			0.0200	0.0176		mg/Kg		88	80 - 125	7	30
Methylcyclohexane			0.0200	0.0196		mg/Kg		98	70 - 133	12	30
Methylene Chloride			0.0200	0.0193		mg/Kg		97	76 - 120	7	30
m-Xylene & p-Xylene			0.0200	0.0194		mg/Kg		97	80 - 120	5	30
n-Butylbenzene			0.0200	0.0224		mg/Kg		112	68 - 150	10	30
N-Propylbenzene			0.0200	0.0211		mg/Kg		105	78 - 130	10	30
o-Xylene			0.0200	0.0192		mg/Kg		96	80 - 120	6	30
sec-Butylbenzene			0.0200	0.0212		mg/Kg		106	78 - 136	12	30
Styrene			0.0200	0.0187		mg/Kg		94	80 - 120	4	30
tert-Butylbenzene			0.0200	0.0199		mg/Kg		100	80 - 128	9	30
Tetrachloroethene			0.0200	0.0189		mg/Kg		94	78 - 123	5	30
Toluene			0.0200	0.0209		mg/Kg		104	80 - 120	5	30
trans-1,2-Dichloroethene			0.0200	0.0188		mg/Kg		94	78 - 120	6	30
trans-1,3-Dichloropropene			0.0200	0.0183		mg/Kg		91	80 - 120	2	30
Trichloroethene			0.0200	0.0188		mg/Kg		94	79 - 120	6	30
Trichlorofluoromethane			0.0200	0.0175		mg/Kg		87	76 - 142	4	30
Vinyl chloride			0.0200	0.0195		mg/Kg		98	72 - 131	9	30
Xylenes, Total			0.0400	0.0386		mg/Kg		97	80 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*
4-Bromofluorobenzene	*100*		*75 - 139*
Dibromofluoromethane (Surr)	*94*		*73 - 139*
Toluene-d8 (Surr)	*111*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870277/8
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 22:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 22:16	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/05/22 22:16	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 22:16	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 22:16	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/05/22 22:16	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 22:16	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/05/22 22:16	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/05/22 22:16	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 22:16	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/05/22 22:16	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/05/22 22:16	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/05/22 22:16	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/05/22 22:16	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/05/22 22:16	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 22:16	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/05/22 22:16	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/05/22 22:16	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 22:16	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/05/22 22:16	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 22:16	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 22:16	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/05/22 22:16	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/05/22 22:16	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/05/22 22:16	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/05/22 22:16	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 22:16	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/05/22 22:16	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/05/22 22:16	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/05/22 22:16	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/05/22 22:16	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 22:16	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/05/22 22:16	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/05/22 22:16	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/05/22 22:16	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/05/22 22:16	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/05/22 22:16	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 22:16	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/05/22 22:16	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/05/22 22:16	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/05/22 22:16	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870277/8
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 22:16	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/05/22 22:16	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/05/22 22:16	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/05/22 22:16	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/05/22 22:16	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/05/22 22:16	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/05/22 22:16	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/05/22 22:16	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/05/22 22:16	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/05/22 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*		*10/05/22 22:16*	*1*
4-Bromofluorobenzene	*103*		*75 - 139*		*10/05/22 22:16*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*		*10/05/22 22:16*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/05/22 22:16*	*1*

Lab Sample ID: LCS 460-870277/4
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0214		mg/Kg		107	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0162		mg/Kg		81	75 - 141
1,1,2-Trichloroethane	0.0200	0.0202		mg/Kg		101	80 - 120
1,1-Dichloroethane	0.0200	0.0192		mg/Kg		96	77 - 129
1,1-Dichloroethene	0.0200	0.0165		mg/Kg		83	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0174		mg/Kg		87	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0167		mg/Kg		83	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0193		mg/Kg		97	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0166		mg/Kg		83	60 - 124
1,2-Dichlorobenzene	0.0200	0.0186		mg/Kg		93	80 - 120
1,2-Dichloroethane	0.0200	0.0180		mg/Kg		90	75 - 123
1,2-Dichloropropane	0.0200	0.0198		mg/Kg		99	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0196		mg/Kg		98	79 - 120
1,3-Dichlorobenzene	0.0200	0.0178		mg/Kg		89	80 - 120
1,4-Dichlorobenzene	0.0200	0.0181		mg/Kg		90	80 - 120
2-Butanone (MEK)	0.100	0.0759		mg/Kg		76	75 - 120
2-Hexanone	0.100	0.0809		mg/Kg		81	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0821		mg/Kg		82	80 - 122
Acetone	0.100	0.0781		mg/Kg		78	63 - 131
Benzene	0.0200	0.0213		mg/Kg		106	80 - 123
Bromoform	0.0200	0.0143		mg/Kg		72	70 - 125
Bromomethane	0.0200	0.0163		mg/Kg		81	64 - 150
Carbon disulfide	0.0200	0.0159		mg/Kg		79	76 - 120
Carbon tetrachloride	0.0200	0.0150	*	mg/Kg		75	77 - 121
Chlorobenzene	0.0200	0.0186		mg/Kg		93	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870277/4
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	0.0200	0.0163		mg/Kg		81	76 - 127
Chlorodibromomethane	0.0200	0.0168		mg/Kg		84	80 - 120
Chloroethane	0.0200	0.0187		mg/Kg		93	68 - 132
Chloroform	0.0200	0.0183		mg/Kg		92	79 - 126
Chloromethane	0.0200	0.0194		mg/Kg		97	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0170		mg/Kg		85	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0195		mg/Kg		98	80 - 120
Cyclohexane	0.0200	0.0182		mg/Kg		91	70 - 132
Dichlorobromomethane	0.0200	0.0172		mg/Kg		86	73 - 124
Dichlorodifluoromethane	0.0200	0.0162		mg/Kg		81	62 - 150
Ethylbenzene	0.0200	0.0187		mg/Kg		93	76 - 120
Ethylene Dibromide	0.0200	0.0178		mg/Kg		89	79 - 120
Isopropylbenzene	0.0200	0.0186		mg/Kg		93	80 - 120
Methyl acetate	0.0400	0.0354		mg/Kg		88	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		83	80 - 125
Methylcyclohexane	0.0200	0.0183		mg/Kg		92	70 - 133
Methylene Chloride	0.0200	0.0173		mg/Kg		86	76 - 120
m-Xylene & p-Xylene	0.0200	0.0183		mg/Kg		92	80 - 120
n-Butylbenzene	0.0200	0.0206		mg/Kg		103	68 - 150
N-Propylbenzene	0.0200	0.0199		mg/Kg		100	78 - 130
o-Xylene	0.0200	0.0182		mg/Kg		91	80 - 120
sec-Butylbenzene	0.0200	0.0199		mg/Kg		99	78 - 136
Styrene	0.0200	0.0180		mg/Kg		90	80 - 120
tert-Butylbenzene	0.0200	0.0194		mg/Kg		97	80 - 128
Tetrachloroethene	0.0200	0.0179		mg/Kg		89	78 - 123
Toluene	0.0200	0.0201		mg/Kg		101	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0181		mg/Kg		91	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0180		mg/Kg		90	80 - 120
Trichloroethene	0.0200	0.0179		mg/Kg		89	79 - 120
Trichlorofluoromethane	0.0200	0.0172		mg/Kg		86	76 - 142
Vinyl chloride	0.0200	0.0196		mg/Kg		98	72 - 131
Xylenes, Total	0.0400	0.0365		mg/Kg		91	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*
4-Bromofluorobenzene	*103*		*75 - 139*
Dibromofluoromethane (Surr)	*93*		*73 - 139*
Toluene-d8 (Surr)	*111*		*80 - 120*

Lab Sample ID: LCSD 460-870277/5
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0163		mg/Kg		81	78 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0200	0.0232		mg/Kg		116	66 - 123	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0168		mg/Kg		84	75 - 141	3	30
1,1,2-Trichloroethane	0.0200	0.0206		mg/Kg		103	80 - 120	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870277/5
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0200	0.0197		mg/Kg		98	77 - 129	2	30
1,1-Dichloroethene	0.0200	0.0171		mg/Kg		86	70 - 132	4	30
1,2,3-Trichlorobenzene	0.0200	0.0148		mg/Kg		74	44 - 120	16	30
1,2,4-Trichlorobenzene	0.0200	0.0138		mg/Kg		69	68 - 150	19	30
1,2,4-Trimethylbenzene	0.0200	0.0172		mg/Kg		86	79 - 120	12	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0177		mg/Kg		89	60 - 124	6	30
1,2-Dichlorobenzene	0.0200	0.0174		mg/Kg		87	80 - 120	6	30
1,2-Dichloroethane	0.0200	0.0184		mg/Kg		92	75 - 123	2	30
1,2-Dichloropropane	0.0200	0.0202		mg/Kg		101	73 - 124	2	30
1,3,5-Trimethylbenzene	0.0200	0.0169		mg/Kg		85	79 - 120	15	30
1,3-Dichlorobenzene	0.0200	0.0169		mg/Kg		85	80 - 120	5	30
1,4-Dichlorobenzene	0.0200	0.0170		mg/Kg		85	80 - 120	6	30
2-Butanone (MEK)	0.100	0.0795		mg/Kg		79	75 - 120	5	30
2-Hexanone	0.100	0.0833		mg/Kg		83	70 - 128	3	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0844		mg/Kg		84	80 - 122	3	30
Acetone	0.100	0.0950		mg/Kg		95	63 - 131	20	30
Benzene	0.0200	0.0210		mg/Kg		105	80 - 123	1	30
Bromoform	0.0200	0.0146		mg/Kg		73	70 - 125	2	30
Bromomethane	0.0200	0.0165		mg/Kg		83	64 - 150	2	30
Carbon disulfide	0.0200	0.0174		mg/Kg		87	76 - 120	9	30
Carbon tetrachloride	0.0200	0.0152	*	mg/Kg		76	77 - 121	2	30
Chlorobenzene	0.0200	0.0184		mg/Kg		92	80 - 120	1	30
Chlorobromomethane	0.0200	0.0169		mg/Kg		84	76 - 127	3	30
Chlorodibromomethane	0.0200	0.0163		mg/Kg		82	80 - 120	3	30
Chloroethane	0.0200	0.0188		mg/Kg		94	68 - 132	1	30
Chloroform	0.0200	0.0184		mg/Kg		92	79 - 126	0	30
Chloromethane	0.0200	0.0201		mg/Kg		100	63 - 130	4	30
cis-1,2-Dichloroethene	0.0200	0.0175		mg/Kg		87	80 - 123	3	30
cis-1,3-Dichloropropene	0.0200	0.0197		mg/Kg		99	80 - 120	1	30
Cyclohexane	0.0200	0.0166		mg/Kg		83	70 - 132	9	30
Dichlorobromomethane	0.0200	0.0174		mg/Kg		87	73 - 124	1	30
Dichlorodifluoromethane	0.0200	0.0166		mg/Kg		83	62 - 150	2	30
Ethylbenzene	0.0200	0.0174		mg/Kg		87	76 - 120	7	30
Ethylene Dibromide	0.0200	0.0180		mg/Kg		90	79 - 120	1	30
Isopropylbenzene	0.0200	0.0162		mg/Kg		81	80 - 120	13	30
Methyl acetate	0.0400	0.0464		mg/Kg		116	58 - 143	27	30
Methyl tert-butyl ether	0.0200	0.0182		mg/Kg		91	80 - 125	10	30
Methylcyclohexane	0.0200	0.0142		mg/Kg		71	70 - 133	25	30
Methylene Chloride	0.0200	0.0183		mg/Kg		91	76 - 120	5	30
m-Xylene & p-Xylene	0.0200	0.0173		mg/Kg		86	80 - 120	6	30
n-Butylbenzene	0.0200	0.0159		mg/Kg		79	68 - 150	26	30
N-Propylbenzene	0.0200	0.0172		mg/Kg		86	78 - 130	15	30
o-Xylene	0.0200	0.0173		mg/Kg		86	80 - 120	5	30
sec-Butylbenzene	0.0200	0.0155	*	mg/Kg		77	78 - 136	25	30
Styrene	0.0200	0.0174		mg/Kg		87	80 - 120	3	30
tert-Butylbenzene	0.0200	0.0150	*	mg/Kg		75	80 - 128	26	30
Tetrachloroethene	0.0200	0.0156		mg/Kg		78	78 - 123	13	30
Toluene	0.0200	0.0196		mg/Kg		98	80 - 120	3	30
trans-1,2-Dichloroethene	0.0200	0.0178		mg/Kg		89	78 - 120	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870277/5
Matrix: Solid
Analysis Batch: 870277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			0.0200	0.0181		mg/Kg		91	80 - 120	1	30
Trichloroethene			0.0200	0.0177		mg/Kg		88	79 - 120	1	30
Trichlorofluoromethane			0.0200	0.0176		mg/Kg		88	76 - 142	2	30
Vinyl chloride			0.0200	0.0201		mg/Kg		100	72 - 131	2	30
Xylenes, Total			0.0400	0.0346		mg/Kg		86	80 - 120	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 145*
4-Bromofluorobenzene	*100*		*75 - 139*
Dibromofluoromethane (Surr)	*90*		*73 - 139*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LB3 460-870338/1-A
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870338

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg		10/05/22 19:31	10/06/22 08:00	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-870338/1-A
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870338

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg		10/05/22 19:31	10/06/22 08:00	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg		10/05/22 19:31	10/06/22 08:00	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 145*	*10/05/22 19:31*	*10/06/22 08:00*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*	*10/05/22 19:31*	*10/06/22 08:00*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 139*	*10/05/22 19:31*	*10/06/22 08:00*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*10/05/22 19:31*	*10/06/22 08:00*	*1*

Lab Sample ID: MB 460-870378/9
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 07:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 07:37	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 07:37	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 07:37	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 07:37	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870378/9
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/06/22 07:37	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 07:37	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 07:37	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/06/22 07:37	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 07:37	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/06/22 07:37	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/06/22 07:37	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/06/22 07:37	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/06/22 07:37	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/06/22 07:37	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 07:37	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/06/22 07:37	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/06/22 07:37	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 07:37	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/06/22 07:37	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 07:37	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 07:37	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/06/22 07:37	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/06/22 07:37	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/06/22 07:37	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 07:37	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 07:37	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/06/22 07:37	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 07:37	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/06/22 07:37	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/06/22 07:37	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 07:37	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/06/22 07:37	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/06/22 07:37	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/06/22 07:37	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/06/22 07:37	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/06/22 07:37	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 07:37	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 07:37	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 07:37	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 07:37	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 07:37	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 07:37	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 07:37	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 07:37	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 07:37	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 07:37	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/06/22 07:37	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/06/22 07:37	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/06/22 07:37	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/06/22 07:37	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		72 - 145		10/06/22 07:37	1
4-Bromofluorobenzene	115		75 - 139		10/06/22 07:37	1
Dibromofluoromethane (Surr)	106		73 - 139		10/06/22 07:37	1
Toluene-d8 (Surr)	97		80 - 120		10/06/22 07:37	1

Lab Sample ID: LCS 460-870378/4
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0220		mg/Kg		110	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0211		mg/Kg		105	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0235		mg/Kg		117	75 - 141
1,1,2-Trichloroethane	0.0200	0.0197		mg/Kg		99	80 - 120
1,1-Dichloroethane	0.0200	0.0227		mg/Kg		114	77 - 129
1,1-Dichloroethene	0.0200	0.0230		mg/Kg		115	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0197		mg/Kg		99	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0198		mg/Kg		99	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0195		mg/Kg		97	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0200		mg/Kg		100	60 - 124
1,2-Dichlorobenzene	0.0200	0.0201		mg/Kg		100	80 - 120
1,2-Dichloroethane	0.0200	0.0241		mg/Kg		121	75 - 123
1,2-Dichloropropane	0.0200	0.0207		mg/Kg		103	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0195		mg/Kg		97	79 - 120
1,3-Dichlorobenzene	0.0200	0.0208		mg/Kg		104	80 - 120
1,4-Dichlorobenzene	0.0200	0.0205		mg/Kg		102	80 - 120
2-Butanone (MEK)	0.100	0.0858		mg/Kg		86	75 - 120
2-Hexanone	0.100	0.0997		mg/Kg		100	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0998		mg/Kg		100	80 - 122
Acetone	0.100	0.103		mg/Kg		103	63 - 131
Benzene	0.0200	0.0207		mg/Kg		103	80 - 123
Bromoform	0.0200	0.0199		mg/Kg		99	70 - 125
Bromomethane	0.0200	0.0167		mg/Kg		84	64 - 150
Carbon disulfide	0.0200	0.0239		mg/Kg		119	76 - 120
Carbon tetrachloride	0.0200	0.0216		mg/Kg		108	77 - 121
Chlorobenzene	0.0200	0.0200		mg/Kg		100	80 - 120
Chlorobromomethane	0.0200	0.0214		mg/Kg		107	76 - 127
Chlorodibromomethane	0.0200	0.0195		mg/Kg		98	80 - 120
Chloroethane	0.0200	0.0222		mg/Kg		111	68 - 132
Chloroform	0.0200	0.0215		mg/Kg		107	79 - 126
Chloromethane	0.0200	0.0204		mg/Kg		102	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0208		mg/Kg		104	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0202		mg/Kg		101	80 - 120
Cyclohexane	0.0200	0.0216		mg/Kg		108	70 - 132
Dichlorobromomethane	0.0200	0.0209		mg/Kg		105	73 - 124
Dichlorodifluoromethane	0.0200	0.0203		mg/Kg		102	62 - 150
Ethylbenzene	0.0200	0.0200		mg/Kg		100	76 - 120
Ethylene Dibromide	0.0200	0.0201		mg/Kg		100	79 - 120
Isopropylbenzene	0.0200	0.0200		mg/Kg		100	80 - 120
Methyl acetate	0.0400	0.0565		mg/Kg		141	58 - 143
Methyl tert-butyl ether	0.0200	0.0228		mg/Kg		114	80 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870378/4
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylcyclohexane	0.0200	0.0207		mg/Kg		103	70 - 133
Methylene Chloride	0.0200	0.0218		mg/Kg		109	76 - 120
m-Xylene & p-Xylene	0.0200	0.0194		mg/Kg		97	80 - 120
n-Butylbenzene	0.0200	0.0208		mg/Kg		104	68 - 150
N-Propylbenzene	0.0200	0.0212		mg/Kg		106	78 - 130
o-Xylene	0.0200	0.0195		mg/Kg		98	80 - 120
sec-Butylbenzene	0.0200	0.0205		mg/Kg		102	78 - 136
Styrene	0.0200	0.0197		mg/Kg		99	80 - 120
tert-Butylbenzene	0.0200	0.0203		mg/Kg		102	80 - 128
Tetrachloroethene	0.0200	0.0211		mg/Kg		105	78 - 123
Toluene	0.0200	0.0199		mg/Kg		99	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0226		mg/Kg		113	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0204		mg/Kg		102	80 - 120
Trichloroethene	0.0200	0.0202		mg/Kg		101	79 - 120
Trichlorofluoromethane	0.0200	0.0228		mg/Kg		114	76 - 142
Vinyl chloride	0.0200	0.0227		mg/Kg		113	72 - 131
Xylenes, Total	0.0400	0.0390		mg/Kg		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 145*
4-Bromofluorobenzene	*114*		*75 - 139*
Dibromofluoromethane (Surr)	*101*		*73 - 139*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 460-870378/5
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0214		mg/Kg		107	78 - 120	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.0197		mg/Kg		98	66 - 123	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0232		mg/Kg		116	75 - 141	1	30
1,1,2-Trichloroethane	0.0200	0.0192		mg/Kg		96	80 - 120	3	30
1,1-Dichloroethane	0.0200	0.0221		mg/Kg		110	77 - 129	3	30
1,1-Dichloroethene	0.0200	0.0225		mg/Kg		113	70 - 132	2	30
1,2,3-Trichlorobenzene	0.0200	0.0195		mg/Kg		97	44 - 120	1	30
1,2,4-Trichlorobenzene	0.0200	0.0196		mg/Kg		98	68 - 150	1	30
1,2,4-Trimethylbenzene	0.0200	0.0190		mg/Kg		95	79 - 120	3	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0183		mg/Kg		91	60 - 124	9	30
1,2-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120	4	30
1,2-Dichloroethane	0.0200	0.0230		mg/Kg		115	75 - 123	5	30
1,2-Dichloropropane	0.0200	0.0199		mg/Kg		99	73 - 124	4	30
1,3,5-Trimethylbenzene	0.0200	0.0188		mg/Kg		94	79 - 120	4	30
1,3-Dichlorobenzene	0.0200	0.0202		mg/Kg		101	80 - 120	3	30
1,4-Dichlorobenzene	0.0200	0.0201		mg/Kg		100	80 - 120	2	30
2-Butanone (MEK)	0.100	0.0806		mg/Kg		81	75 - 120	6	30
2-Hexanone	0.100	0.0988		mg/Kg		99	70 - 128	1	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0994		mg/Kg		99	80 - 122	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870378/5
Matrix: Solid
Analysis Batch: 870378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			0.100	0.0992		mg/Kg		99	63 - 131	3	30
Benzene			0.0200	0.0199		mg/Kg		100	80 - 123	4	30
Bromoform			0.0200	0.0191		mg/Kg		95	70 - 125	4	30
Bromomethane			0.0200	0.0159		mg/Kg		80	64 - 150	5	30
Carbon disulfide			0.0200	0.0229		mg/Kg		114	76 - 120	4	30
Carbon tetrachloride			0.0200	0.0208		mg/Kg		104	77 - 121	4	30
Chlorobenzene			0.0200	0.0192		mg/Kg		96	80 - 120	4	30
Chlorobromomethane			0.0200	0.0199		mg/Kg		100	76 - 127	7	30
Chlorodibromomethane			0.0200	0.0189		mg/Kg		95	80 - 120	3	30
Chloroethane			0.0200	0.0221		mg/Kg		110	68 - 132	1	30
Chloroform			0.0200	0.0208		mg/Kg		104	79 - 126	3	30
Chloromethane			0.0200	0.0197		mg/Kg		99	63 - 130	3	30
cis-1,2-Dichloroethene			0.0200	0.0203		mg/Kg		101	80 - 123	3	30
cis-1,3-Dichloropropene			0.0200	0.0194		mg/Kg		97	80 - 120	4	30
Cyclohexane			0.0200	0.0211		mg/Kg		106	70 - 132	2	30
Dichlorobromomethane			0.0200	0.0204		mg/Kg		102	73 - 124	3	30
Dichlorodifluoromethane			0.0200	0.0188		mg/Kg		94	62 - 150	8	30
Ethylbenzene			0.0200	0.0192		mg/Kg		96	76 - 120	4	30
Ethylene Dibromide			0.0200	0.0193		mg/Kg		96	79 - 120	4	30
Isopropylbenzene			0.0200	0.0193		mg/Kg		96	80 - 120	4	30
Methyl acetate			0.0400	0.0520		mg/Kg		130	58 - 143	8	30
Methyl tert-butyl ether			0.0200	0.0222		mg/Kg		111	80 - 125	3	30
Methylcyclohexane			0.0200	0.0203		mg/Kg		102	70 - 133	2	30
Methylene Chloride			0.0200	0.0210		mg/Kg		105	76 - 120	4	30
m-Xylene & p-Xylene			0.0200	0.0188		mg/Kg		94	80 - 120	3	30
n-Butylbenzene			0.0200	0.0202		mg/Kg		101	68 - 150	3	30
N-Propylbenzene			0.0200	0.0204		mg/Kg		102	78 - 130	4	30
o-Xylene			0.0200	0.0192		mg/Kg		96	80 - 120	2	30
sec-Butylbenzene			0.0200	0.0197		mg/Kg		99	78 - 136	4	30
Styrene			0.0200	0.0192		mg/Kg		96	80 - 120	3	30
tert-Butylbenzene			0.0200	0.0195		mg/Kg		97	80 - 128	4	30
Tetrachloroethene			0.0200	0.0206		mg/Kg		103	78 - 123	2	30
Toluene			0.0200	0.0192		mg/Kg		96	80 - 120	3	30
trans-1,2-Dichloroethene			0.0200	0.0213		mg/Kg		106	78 - 120	6	30
trans-1,3-Dichloropropene			0.0200	0.0200		mg/Kg		100	80 - 120	2	30
Trichloroethene			0.0200	0.0196		mg/Kg		98	79 - 120	3	30
Trichlorofluoromethane			0.0200	0.0222		mg/Kg		111	76 - 142	3	30
Vinyl chloride			0.0200	0.0217		mg/Kg		108	72 - 131	5	30
Xylenes, Total			0.0400	0.0380		mg/Kg		95	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 145*
4-Bromofluorobenzene	*113*		*75 - 139*
Dibromofluoromethane (Surr)	*101*		*73 - 139*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870379/7
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 09:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 09:57	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 09:57	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 09:57	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 09:57	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/06/22 09:57	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 09:57	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 09:57	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/06/22 09:57	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 09:57	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/06/22 09:57	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/06/22 09:57	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/06/22 09:57	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/06/22 09:57	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/06/22 09:57	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 09:57	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/06/22 09:57	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/06/22 09:57	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 09:57	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/06/22 09:57	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 09:57	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 09:57	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/06/22 09:57	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/06/22 09:57	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/06/22 09:57	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 09:57	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 09:57	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/06/22 09:57	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 09:57	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/06/22 09:57	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/06/22 09:57	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 09:57	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/06/22 09:57	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/06/22 09:57	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/06/22 09:57	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/06/22 09:57	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/06/22 09:57	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 09:57	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 09:57	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 09:57	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 09:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870379/7
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 09:57	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 09:57	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 09:57	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 09:57	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 09:57	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 09:57	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/06/22 09:57	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/06/22 09:57	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/06/22 09:57	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/06/22 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*		*10/06/22 09:57*	*1*
4-Bromofluorobenzene	*99*		*75 - 139*		*10/06/22 09:57*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 139*		*10/06/22 09:57*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/06/22 09:57*	*1*

Lab Sample ID: LCS 460-870379/4
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0167		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0230		mg/Kg		115	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0184		mg/Kg		92	75 - 141
1,1,2-Trichloroethane	0.0200	0.0195		mg/Kg		97	80 - 120
1,1-Dichloroethane	0.0200	0.0189		mg/Kg		95	77 - 129
1,1-Dichloroethene	0.0200	0.0177		mg/Kg		88	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0181		mg/Kg		90	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0180		mg/Kg		90	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0203		mg/Kg		101	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0174		mg/Kg		87	60 - 124
1,2-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120
1,2-Dichloroethane	0.0200	0.0173		mg/Kg		86	75 - 123
1,2-Dichloropropane	0.0200	0.0198		mg/Kg		99	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0203		mg/Kg		101	79 - 120
1,3-Dichlorobenzene	0.0200	0.0189		mg/Kg		95	80 - 120
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		92	80 - 120
2-Butanone (MEK)	0.100	0.0815		mg/Kg		81	75 - 120
2-Hexanone	0.100	0.0879		mg/Kg		88	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0905		mg/Kg		91	80 - 122
Acetone	0.100	0.0950		mg/Kg		95	63 - 131
Benzene	0.0200	0.0207		mg/Kg		104	80 - 123
Bromoform	0.0200	0.0135	*	mg/Kg		68	70 - 125
Bromomethane	0.0200	0.0160		mg/Kg		80	64 - 150
Carbon disulfide	0.0200	0.0180		mg/Kg		90	76 - 120
Carbon tetrachloride	0.0200	0.0166		mg/Kg		83	77 - 121
Chlorobenzene	0.0200	0.0185		mg/Kg		92	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870379/4
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	0.0200	0.0156		mg/Kg		78	76 - 127
Chlorodibromomethane	0.0200	0.0162		mg/Kg		81	80 - 120
Chloroethane	0.0200	0.0183		mg/Kg		91	68 - 132
Chloroform	0.0200	0.0181		mg/Kg		90	79 - 126
Chloromethane	0.0200	0.0204		mg/Kg		102	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0172		mg/Kg		86	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0193		mg/Kg		96	80 - 120
Cyclohexane	0.0200	0.0187		mg/Kg		94	70 - 132
Dichlorobromomethane	0.0200	0.0172		mg/Kg		86	73 - 124
Dichlorodifluoromethane	0.0200	0.0179		mg/Kg		90	62 - 150
Ethylbenzene	0.0200	0.0193		mg/Kg		96	76 - 120
Ethylene Dibromide	0.0200	0.0176		mg/Kg		88	79 - 120
Isopropylbenzene	0.0200	0.0190		mg/Kg		95	80 - 120
Methyl acetate	0.0400	0.0412		mg/Kg		103	58 - 143
Methyl tert-butyl ether	0.0200	0.0165		mg/Kg		83	80 - 125
Methylcyclohexane	0.0200	0.0189		mg/Kg		94	70 - 133
Methylene Chloride	0.0200	0.0172		mg/Kg		86	76 - 120
m-Xylene & p-Xylene	0.0200	0.0185		mg/Kg		92	80 - 120
n-Butylbenzene	0.0200	0.0227		mg/Kg		113	68 - 150
N-Propylbenzene	0.0200	0.0207		mg/Kg		104	78 - 130
o-Xylene	0.0200	0.0183		mg/Kg		91	80 - 120
sec-Butylbenzene	0.0200	0.0210		mg/Kg		105	78 - 136
Styrene	0.0200	0.0178		mg/Kg		89	80 - 120
tert-Butylbenzene	0.0200	0.0197		mg/Kg		98	80 - 128
Tetrachloroethene	0.0200	0.0179		mg/Kg		90	78 - 123
Toluene	0.0200	0.0200		mg/Kg		100	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0173		mg/Kg		87	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0178		mg/Kg		89	80 - 120
Trichloroethene	0.0200	0.0174		mg/Kg		87	79 - 120
Trichlorofluoromethane	0.0200	0.0172		mg/Kg		86	76 - 142
Vinyl chloride	0.0200	0.0195		mg/Kg		97	72 - 131
Xylenes, Total	0.0400	0.0367		mg/Kg		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 145*
4-Bromofluorobenzene	*104*		*75 - 139*
Dibromofluoromethane (Surr)	*97*		*73 - 139*
Toluene-d8 (Surr)	*114*		*80 - 120*

Lab Sample ID: LCSD 460-870379/5
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0189		mg/Kg		94	78 - 120	12	30
1,1,2,2-Tetrachloroethane	0.0200	0.0222		mg/Kg		111	66 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0216		mg/Kg		108	75 - 141	16	30
1,1,2-Trichloroethane	0.0200	0.0203		mg/Kg		101	80 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870379/5
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0200	0.0210		mg/Kg		105	77 - 129	10	30
1,1-Dichloroethene	0.0200	0.0205		mg/Kg		102	70 - 132	15	30
1,2,3-Trichlorobenzene	0.0200	0.0184		mg/Kg		92	44 - 120	2	30
1,2,4-Trichlorobenzene	0.0200	0.0189		mg/Kg		95	68 - 150	5	30
1,2,4-Trimethylbenzene	0.0200	0.0219		mg/Kg		110	79 - 120	8	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0167		mg/Kg		84	60 - 124	4	30
1,2-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120	3	30
1,2-Dichloroethane	0.0200	0.0178		mg/Kg		89	75 - 123	3	30
1,2-Dichloropropane	0.0200	0.0210		mg/Kg		105	73 - 124	6	30
1,3,5-Trimethylbenzene	0.0200	0.0227		mg/Kg		113	79 - 120	11	30
1,3-Dichlorobenzene	0.0200	0.0199		mg/Kg		99	80 - 120	5	30
1,4-Dichlorobenzene	0.0200	0.0199		mg/Kg		99	80 - 120	7	30
2-Butanone (MEK)	0.100	0.0760		mg/Kg		76	75 - 120	7	30
2-Hexanone	0.100	0.0836		mg/Kg		84	70 - 128	5	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0842		mg/Kg		84	80 - 122	7	30
Acetone	0.100	0.0903		mg/Kg		90	63 - 131	5	30
Benzene	0.0200	0.0229		mg/Kg		114	80 - 123	10	30
Bromoform	0.0200	0.0146		mg/Kg		73	70 - 125	8	30
Bromomethane	0.0200	0.0183		mg/Kg		92	64 - 150	13	30
Carbon disulfide	0.0200	0.0210		mg/Kg		105	76 - 120	15	30
Carbon tetrachloride	0.0200	0.0181		mg/Kg		91	77 - 121	9	30
Chlorobenzene	0.0200	0.0197		mg/Kg		99	80 - 120	7	30
Chlorobromomethane	0.0200	0.0165		mg/Kg		83	76 - 127	6	30
Chlorodibromomethane	0.0200	0.0166		mg/Kg		83	80 - 120	2	30
Chloroethane	0.0200	0.0210		mg/Kg		105	68 - 132	14	30
Chloroform	0.0200	0.0195		mg/Kg		97	79 - 126	7	30
Chloromethane	0.0200	0.0247		mg/Kg		124	63 - 130	19	30
cis-1,2-Dichloroethene	0.0200	0.0185		mg/Kg		93	80 - 123	8	30
cis-1,3-Dichloropropene	0.0200	0.0199		mg/Kg		99	80 - 120	3	30
Cyclohexane	0.0200	0.0217		mg/Kg		109	70 - 132	15	30
Dichlorobromomethane	0.0200	0.0174		mg/Kg		87	73 - 124	1	30
Dichlorodifluoromethane	0.0200	0.0213		mg/Kg		107	62 - 150	17	30
Ethylbenzene	0.0200	0.0206		mg/Kg		103	76 - 120	6	30
Ethylene Dibromide	0.0200	0.0175		mg/Kg		88	79 - 120	0	30
Isopropylbenzene	0.0200	0.0217		mg/Kg		108	80 - 120	13	30
Methyl acetate	0.0400	0.0357		mg/Kg		89	58 - 143	15	30
Methyl tert-butyl ether	0.0200	0.0168		mg/Kg		84	80 - 125	2	30
Methylcyclohexane	0.0200	0.0215		mg/Kg		108	70 - 133	13	30
Methylene Chloride	0.0200	0.0186		mg/Kg		93	76 - 120	7	30
m-Xylene & p-Xylene	0.0200	0.0205		mg/Kg		102	80 - 120	10	30
n-Butylbenzene	0.0200	0.0249		mg/Kg		124	68 - 150	9	30
N-Propylbenzene	0.0200	0.0223		mg/Kg		111	78 - 130	7	30
o-Xylene	0.0200	0.0203		mg/Kg		102	80 - 120	11	30
sec-Butylbenzene	0.0200	0.0232		mg/Kg		116	78 - 136	10	30
Styrene	0.0200	0.0195		mg/Kg		97	80 - 120	9	30
tert-Butylbenzene	0.0200	0.0215		mg/Kg		108	80 - 128	9	30
Tetrachloroethene	0.0200	0.0202		mg/Kg		101	78 - 123	12	30
Toluene	0.0200	0.0212		mg/Kg		106	80 - 120	6	30
trans-1,2-Dichloroethene	0.0200	0.0199		mg/Kg		100	78 - 120	14	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870379/5
Matrix: Solid
Analysis Batch: 870379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			0.0200	0.0180		mg/Kg		90	80 - 120	1	30
Trichloroethene			0.0200	0.0192		mg/Kg		96	79 - 120	10	30
Trichlorofluoromethane			0.0200	0.0197		mg/Kg		99	76 - 142	14	30
Vinyl chloride			0.0200	0.0239		mg/Kg		119	72 - 131	20	30
Xylenes, Total			0.0400	0.0408		mg/Kg		102	80 - 120	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 145*
4-Bromofluorobenzene	*93*		*75 - 139*
Dibromofluoromethane (Surr)	*81*		*73 - 139*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 460-870501/8
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 20:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 20:11	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/06/22 20:11	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 20:11	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 20:11	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/06/22 20:11	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 20:11	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/06/22 20:11	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/06/22 20:11	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 20:11	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/06/22 20:11	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/06/22 20:11	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/06/22 20:11	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/06/22 20:11	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/06/22 20:11	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 20:11	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/06/22 20:11	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/06/22 20:11	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 20:11	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/06/22 20:11	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 20:11	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 20:11	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/06/22 20:11	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/06/22 20:11	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/06/22 20:11	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870501/8
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/06/22 20:11	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 20:11	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/06/22 20:11	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/06/22 20:11	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/06/22 20:11	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/06/22 20:11	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 20:11	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/06/22 20:11	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/06/22 20:11	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/06/22 20:11	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/06/22 20:11	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/06/22 20:11	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 20:11	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/06/22 20:11	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/06/22 20:11	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/06/22 20:11	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 20:11	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/06/22 20:11	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/06/22 20:11	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/06/22 20:11	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/06/22 20:11	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/06/22 20:11	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/06/22 20:11	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/06/22 20:11	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/06/22 20:11	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/06/22 20:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 145*		*10/06/22 20:11*	*1*
4-Bromofluorobenzene	*103*		*75 - 139*		*10/06/22 20:11*	*1*
Dibromofluoromethane (Surr)	*85*		*73 - 139*		*10/06/22 20:11*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/06/22 20:11*	*1*

Lab Sample ID: LCS 460-870501/3
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0168		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		112	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0182		mg/Kg		91	75 - 141
1,1,2-Trichloroethane	0.0200	0.0213		mg/Kg		106	80 - 120
1,1-Dichloroethane	0.0200	0.0197		mg/Kg		99	77 - 129
1,1-Dichloroethene	0.0200	0.0176		mg/Kg		88	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0193		mg/Kg		97	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0192		mg/Kg		96	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0197		mg/Kg		99	79 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870501/3
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.0200	0.0174		mg/Kg		87	60 - 124
1,2-Dichlorobenzene	0.0200	0.0197		mg/Kg		99	80 - 120
1,2-Dichloroethane	0.0200	0.0176		mg/Kg		88	75 - 123
1,2-Dichloropropane	0.0200	0.0202		mg/Kg		101	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0200		mg/Kg		100	79 - 120
1,3-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120
1,4-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120
2-Butanone (MEK)	0.100	0.0750		mg/Kg		75	75 - 120
2-Hexanone	0.100	0.0815		mg/Kg		82	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0832		mg/Kg		83	80 - 122
Acetone	0.100	0.0917		mg/Kg		92	63 - 131
Benzene	0.0200	0.0220		mg/Kg		110	80 - 123
Bromoform	0.0200	0.0147		mg/Kg		74	70 - 125
Bromomethane	0.0200	0.0169		mg/Kg		85	64 - 150
Carbon disulfide	0.0200	0.0183		mg/Kg		91	76 - 120
Carbon tetrachloride	0.0200	0.0161		mg/Kg		81	77 - 121
Chlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120
Chlorobromomethane	0.0200	0.0159		mg/Kg		79	76 - 127
Chlorodibromomethane	0.0200	0.0167		mg/Kg		84	80 - 120
Chloroethane	0.0200	0.0191		mg/Kg		96	68 - 132
Chloroform	0.0200	0.0184		mg/Kg		92	79 - 126
Chloromethane	0.0200	0.0197		mg/Kg		99	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0172		mg/Kg		86	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0197		mg/Kg		98	80 - 120
Cyclohexane	0.0200	0.0185		mg/Kg		92	70 - 132
Dichlorobromomethane	0.0200	0.0173		mg/Kg		87	73 - 124
Dichlorodifluoromethane	0.0200	0.0172		mg/Kg		86	62 - 150
Ethylbenzene	0.0200	0.0200		mg/Kg		100	76 - 120
Ethylene Dibromide	0.0200	0.0184		mg/Kg		92	79 - 120
Isopropylbenzene	0.0200	0.0195		mg/Kg		97	80 - 120
Methyl acetate	0.0400	0.0449		mg/Kg		112	58 - 143
Methyl tert-butyl ether	0.0200	0.0182		mg/Kg		91	80 - 125
Methylcyclohexane	0.0200	0.0179		mg/Kg		90	70 - 133
Methylene Chloride	0.0200	0.0171		mg/Kg		86	76 - 120
m-Xylene & p-Xylene	0.0200	0.0191		mg/Kg		96	80 - 120
n-Butylbenzene	0.0200	0.0235		mg/Kg		118	68 - 150
N-Propylbenzene	0.0200	0.0202		mg/Kg		101	78 - 130
o-Xylene	0.0200	0.0185		mg/Kg		93	80 - 120
sec-Butylbenzene	0.0200	0.0213		mg/Kg		107	78 - 136
Styrene	0.0200	0.0186		mg/Kg		93	80 - 120
tert-Butylbenzene	0.0200	0.0189		mg/Kg		94	80 - 128
Tetrachloroethene	0.0200	0.0185		mg/Kg		92	78 - 123
Toluene	0.0200	0.0207		mg/Kg		104	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0161		mg/Kg		80	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		92	80 - 120
Trichloroethene	0.0200	0.0176		mg/Kg		88	79 - 120
Trichlorofluoromethane	0.0200	0.0172		mg/Kg		86	76 - 142
Vinyl chloride	0.0200	0.0200		mg/Kg		100	72 - 131
Xylenes, Total	0.0400	0.0376		mg/Kg		94	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		72 - 145
4-Bromofluorobenzene	100		75 - 139
Dibromofluoromethane (Surr)	92		73 - 139
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: LCSD 460-870501/5
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0164		mg/Kg		82	78 - 120	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.0244		mg/Kg		122	66 - 123	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0161		mg/Kg		81	75 - 141	12	30
1,1,2-Trichloroethane			0.0200	0.0205		mg/Kg		102	80 - 120	4	30
1,1-Dichloroethane			0.0200	0.0192		mg/Kg		96	77 - 129	3	30
1,1-Dichloroethene			0.0200	0.0156		mg/Kg		78	70 - 132	12	30
1,2,3-Trichlorobenzene			0.0200	0.0173		mg/Kg		87	44 - 120	11	30
1,2,4-Trichlorobenzene			0.0200	0.0167		mg/Kg		83	68 - 150	14	30
1,2,4-Trimethylbenzene			0.0200	0.0203		mg/Kg		101	79 - 120	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0185		mg/Kg		93	60 - 124	6	30
1,2-Dichlorobenzene			0.0200	0.0187		mg/Kg		94	80 - 120	5	30
1,2-Dichloroethane			0.0200	0.0172		mg/Kg		86	75 - 123	2	30
1,2-Dichloropropane			0.0200	0.0197		mg/Kg		98	73 - 124	3	30
1,3,5-Trimethylbenzene			0.0200	0.0208		mg/Kg		104	79 - 120	4	30
1,3-Dichlorobenzene			0.0200	0.0184		mg/Kg		92	80 - 120	4	30
1,4-Dichlorobenzene			0.0200	0.0189		mg/Kg		95	80 - 120	1	30
2-Butanone (MEK)			0.100	0.0766		mg/Kg		77	75 - 120	2	30
2-Hexanone			0.100	0.0796		mg/Kg		80	70 - 128	2	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0807		mg/Kg		81	80 - 122	3	30
Acetone			0.100	0.0914		mg/Kg		91	63 - 131	0	30
Benzene			0.0200	0.0219		mg/Kg		110	80 - 123	0	30
Bromoform			0.0200	0.0144		mg/Kg		72	70 - 125	2	30
Bromomethane			0.0200	0.0166		mg/Kg		83	64 - 150	2	30
Carbon disulfide			0.0200	0.0166		mg/Kg		83	76 - 120	10	30
Carbon tetrachloride			0.0200	0.0156		mg/Kg		78	77 - 121	4	30
Chlorobenzene			0.0200	0.0189		mg/Kg		95	80 - 120	2	30
Chlorobromomethane			0.0200	0.0164		mg/Kg		82	76 - 127	3	30
Chlorodibromomethane			0.0200	0.0173		mg/Kg		87	80 - 120	3	30
Chloroethane			0.0200	0.0188		mg/Kg		94	68 - 132	2	30
Chloroform			0.0200	0.0179		mg/Kg		90	79 - 126	2	30
Chloromethane			0.0200	0.0214		mg/Kg		107	63 - 130	8	30
cis-1,2-Dichloroethene			0.0200	0.0168		mg/Kg		84	80 - 123	2	30
cis-1,3-Dichloropropene			0.0200	0.0193		mg/Kg		96	80 - 120	2	30
Cyclohexane			0.0200	0.0185		mg/Kg		93	70 - 132	0	30
Dichlorobromomethane			0.0200	0.0167		mg/Kg		84	73 - 124	4	30
Dichlorodifluoromethane			0.0200	0.0173		mg/Kg		87	62 - 150	1	30
Ethylbenzene			0.0200	0.0192		mg/Kg		96	76 - 120	4	30
Ethylene Dibromide			0.0200	0.0183		mg/Kg		91	79 - 120	1	30
Isopropylbenzene			0.0200	0.0198		mg/Kg		99	80 - 120	2	30
Methyl acetate			0.0400	0.0451		mg/Kg		113	58 - 143	0	30
Methyl tert-butyl ether			0.0200	0.0160		mg/Kg		80	80 - 125	13	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870501/5
Matrix: Solid
Analysis Batch: 870501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane			0.0200	0.0171		mg/Kg		85	70 - 133	5	30
Methylene Chloride			0.0200	0.0172		mg/Kg		86	76 - 120	0	30
m-Xylene & p-Xylene			0.0200	0.0182		mg/Kg		91	80 - 120	5	30
n-Butylbenzene			0.0200	0.0214		mg/Kg		107	68 - 150	9	30
N-Propylbenzene			0.0200	0.0207		mg/Kg		104	78 - 130	2	30
o-Xylene			0.0200	0.0180		mg/Kg		90	80 - 120	3	30
sec-Butylbenzene			0.0200	0.0201		mg/Kg		101	78 - 136	6	30
Styrene			0.0200	0.0180		mg/Kg		90	80 - 120	3	30
tert-Butylbenzene			0.0200	0.0191		mg/Kg		95	80 - 128	1	30
Tetrachloroethene			0.0200	0.0179		mg/Kg		89	78 - 123	3	30
Toluene			0.0200	0.0203		mg/Kg		102	80 - 120	2	30
trans-1,2-Dichloroethene			0.0200	0.0175		mg/Kg		88	78 - 120	9	30
trans-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		89	80 - 120	3	30
Trichloroethene			0.0200	0.0174		mg/Kg		87	79 - 120	1	30
Trichlorofluoromethane			0.0200	0.0162		mg/Kg		81	76 - 142	5	30
Vinyl chloride			0.0200	0.0195		mg/Kg		98	72 - 131	2	30
Xylenes, Total			0.0400	0.0363		mg/Kg		91	80 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 145*
4-Bromofluorobenzene	*107*		*75 - 139*
Dibromofluoromethane (Surr)	*90*		*73 - 139*
Toluene-d8 (Surr)	*114*		*80 - 120*

Lab Sample ID: LB3 460-870524/1-A
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870524

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg		10/06/22 16:34	10/07/22 22:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-870524/1-A
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870524

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0060	U	0.0060	0.0057	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg		10/06/22 16:34	10/07/22 22:15	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg		10/06/22 16:34	10/07/22 22:15	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 145*	*10/06/22 16:34*	*10/07/22 22:15*	*1*
4-Bromofluorobenzene	*118*		*75 - 139*	*10/06/22 16:34*	*10/07/22 22:15*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*	*10/06/22 16:34*	*10/07/22 22:15*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*	*10/06/22 16:34*	*10/07/22 22:15*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870690/9
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/07/22 21:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/07/22 21:50	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/07/22 21:50	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/07/22 21:50	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/07/22 21:50	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/07/22 21:50	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/07/22 21:50	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/07/22 21:50	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/07/22 21:50	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/07/22 21:50	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/07/22 21:50	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/07/22 21:50	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/07/22 21:50	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/07/22 21:50	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/07/22 21:50	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/07/22 21:50	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/07/22 21:50	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/07/22 21:50	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/07/22 21:50	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/07/22 21:50	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/07/22 21:50	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/07/22 21:50	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/07/22 21:50	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/07/22 21:50	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/07/22 21:50	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/07/22 21:50	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/07/22 21:50	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/07/22 21:50	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/07/22 21:50	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/07/22 21:50	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/07/22 21:50	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/07/22 21:50	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/07/22 21:50	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/07/22 21:50	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/07/22 21:50	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/07/22 21:50	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/07/22 21:50	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/07/22 21:50	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/07/22 21:50	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/07/22 21:50	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/07/22 21:50	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870690/9
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/07/22 21:50	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/07/22 21:50	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/07/22 21:50	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/07/22 21:50	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/07/22 21:50	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/07/22 21:50	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/07/22 21:50	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/07/22 21:50	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/07/22 21:50	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/07/22 21:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 145*		*10/07/22 21:50*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*		*10/07/22 21:50*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*		*10/07/22 21:50*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/07/22 21:50*	*1*

Lab Sample ID: LCS 460-870690/5
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0202		mg/Kg		101	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0206		mg/Kg		103	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0167		mg/Kg		84	75 - 141
1,1,2-Trichloroethane	0.0200	0.0200		mg/Kg		100	80 - 120
1,1-Dichloroethane	0.0200	0.0198		mg/Kg		99	77 - 129
1,1-Dichloroethene	0.0200	0.0155		mg/Kg		78	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0223		mg/Kg		112	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0230		mg/Kg		115	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0228		mg/Kg		114	79 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0197		mg/Kg		98	60 - 124
1,2-Dichlorobenzene	0.0200	0.0219		mg/Kg		110	80 - 120
1,2-Dichloroethane	0.0200	0.0186		mg/Kg		93	75 - 123
1,2-Dichloropropane	0.0200	0.0205		mg/Kg		102	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0230		mg/Kg		115	79 - 120
1,3-Dichlorobenzene	0.0200	0.0216		mg/Kg		108	80 - 120
1,4-Dichlorobenzene	0.0200	0.0212		mg/Kg		106	80 - 120
2-Butanone (MEK)	0.100	0.0969		mg/Kg		97	75 - 120
2-Hexanone	0.100	0.0968		mg/Kg		97	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0978		mg/Kg		98	80 - 122
Acetone	0.100	0.0766		mg/Kg		77	63 - 131
Benzene	0.0200	0.0216		mg/Kg		108	80 - 123
Bromoform	0.0200	0.0184		mg/Kg		92	70 - 125
Bromomethane	0.0200	0.0169		mg/Kg		85	64 - 150
Carbon disulfide	0.0200	0.0151		mg/Kg		76	76 - 120
Carbon tetrachloride	0.0200	0.0204		mg/Kg		102	77 - 121
Chlorobenzene	0.0200	0.0215		mg/Kg		107	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870690/5
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	0.0200	0.0198		mg/Kg		99	76 - 127
Chlorodibromomethane	0.0200	0.0203		mg/Kg		102	80 - 120
Chloroethane	0.0200	0.0158		mg/Kg		79	68 - 132
Chloroform	0.0200	0.0193		mg/Kg		97	79 - 126
Chloromethane	0.0200	0.0160		mg/Kg		80	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0201		mg/Kg		100	80 - 120
Cyclohexane	0.0200	0.0210		mg/Kg		105	70 - 132
Dichlorobromomethane	0.0200	0.0193		mg/Kg		97	73 - 124
Dichlorodifluoromethane	0.0200	0.0138		mg/Kg		69	62 - 150
Ethylbenzene	0.0200	0.0221		mg/Kg		110	76 - 120
Ethylene Dibromide	0.0200	0.0201		mg/Kg		101	79 - 120
Isopropylbenzene	0.0200	0.0225		mg/Kg		113	80 - 120
Methyl acetate	0.0400	0.0339		mg/Kg		85	58 - 143
Methyl tert-butyl ether	0.0200	0.0181		mg/Kg		90	80 - 125
Methylcyclohexane	0.0200	0.0205		mg/Kg		103	70 - 133
Methylene Chloride	0.0200	0.0183		mg/Kg		92	76 - 120
m-Xylene & p-Xylene	0.0200	0.0217		mg/Kg		109	80 - 120
n-Butylbenzene	0.0200	0.0230		mg/Kg		115	68 - 150
N-Propylbenzene	0.0200	0.0229		mg/Kg		114	78 - 130
o-Xylene	0.0200	0.0212		mg/Kg		106	80 - 120
sec-Butylbenzene	0.0200	0.0232		mg/Kg		116	78 - 136
Styrene	0.0200	0.0208		mg/Kg		104	80 - 120
tert-Butylbenzene	0.0200	0.0228		mg/Kg		114	80 - 128
Tetrachloroethene	0.0200	0.0237		mg/Kg		118	78 - 123
Toluene	0.0200	0.0217		mg/Kg		109	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0197		mg/Kg		98	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0190		mg/Kg		95	80 - 120
Trichloroethene	0.0200	0.0202		mg/Kg		101	79 - 120
Trichlorofluoromethane	0.0200	0.0184		mg/Kg		92	76 - 142
Vinyl chloride	0.0200	0.0175		mg/Kg		88	72 - 131
Xylenes, Total	0.0400	0.0430		mg/Kg		107	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 145*
4-Bromofluorobenzene	*98*		*75 - 139*
Dibromofluoromethane (Surr)	*84*		*73 - 139*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 460-870690/6
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0202		mg/Kg		101	78 - 120	0	30
1,1,2,2-Tetrachloroethane	0.0200	0.0211		mg/Kg		106	66 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0163		mg/Kg		82	75 - 141	2	30
1,1,2-Trichloroethane	0.0200	0.0208		mg/Kg		104	80 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870690/6
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0200	0.0204		mg/Kg		102	77 - 129	3	30
1,1-Dichloroethene	0.0200	0.0156		mg/Kg		78	70 - 132	0	30
1,2,3-Trichlorobenzene	0.0200	0.0225		mg/Kg		113	44 - 120	1	30
1,2,4-Trichlorobenzene	0.0200	0.0224		mg/Kg		112	68 - 150	3	30
1,2,4-Trimethylbenzene	0.0200	0.0216		mg/Kg		108	79 - 120	6	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0195		mg/Kg		98	60 - 124	1	30
1,2-Dichlorobenzene	0.0200	0.0214		mg/Kg		107	80 - 120	2	30
1,2-Dichloroethane	0.0200	0.0182		mg/Kg		91	75 - 123	2	30
1,2-Dichloropropane	0.0200	0.0196		mg/Kg		98	73 - 124	4	30
1,3,5-Trimethylbenzene	0.0200	0.0218		mg/Kg		109	79 - 120	5	30
1,3-Dichlorobenzene	0.0200	0.0218		mg/Kg		109	80 - 120	1	30
1,4-Dichlorobenzene	0.0200	0.0210		mg/Kg		105	80 - 120	1	30
2-Butanone (MEK)	0.100	0.0902		mg/Kg		90	75 - 120	7	30
2-Hexanone	0.100	0.0909		mg/Kg		91	70 - 128	6	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0915		mg/Kg		92	80 - 122	7	30
Acetone	0.100	0.0740		mg/Kg		74	63 - 131	3	30
Benzene	0.0200	0.0214		mg/Kg		107	80 - 123	1	30
Bromoform	0.0200	0.0190		mg/Kg		95	70 - 125	3	30
Bromomethane	0.0200	0.0168		mg/Kg		84	64 - 150	1	30
Carbon disulfide	0.0200	0.0152		mg/Kg		76	76 - 120	0	30
Carbon tetrachloride	0.0200	0.0197		mg/Kg		99	77 - 121	3	30
Chlorobenzene	0.0200	0.0208		mg/Kg		104	80 - 120	3	30
Chlorobromomethane	0.0200	0.0193		mg/Kg		97	76 - 127	2	30
Chlorodibromomethane	0.0200	0.0199		mg/Kg		99	80 - 120	2	30
Chloroethane	0.0200	0.0153		mg/Kg		76	68 - 132	3	30
Chloroform	0.0200	0.0192		mg/Kg		96	79 - 126	1	30
Chloromethane	0.0200	0.0151		mg/Kg		75	63 - 130	6	30
cis-1,2-Dichloroethene	0.0200	0.0191		mg/Kg		96	80 - 123	1	30
cis-1,3-Dichloropropene	0.0200	0.0203		mg/Kg		101	80 - 120	1	30
Cyclohexane	0.0200	0.0210		mg/Kg		105	70 - 132	0	30
Dichlorobromomethane	0.0200	0.0183		mg/Kg		92	73 - 124	6	30
Dichlorodifluoromethane	0.0200	0.0146		mg/Kg		73	62 - 150	6	30
Ethylbenzene	0.0200	0.0212		mg/Kg		106	76 - 120	4	30
Ethylene Dibromide	0.0200	0.0198		mg/Kg		99	79 - 120	2	30
Isopropylbenzene	0.0200	0.0219		mg/Kg		109	80 - 120	3	30
Methyl acetate	0.0400	0.0300		mg/Kg		75	58 - 143	12	30
Methyl tert-butyl ether	0.0200	0.0175		mg/Kg		87	80 - 125	4	30
Methylcyclohexane	0.0200	0.0204		mg/Kg		102	70 - 133	1	30
Methylene Chloride	0.0200	0.0156		mg/Kg		78	76 - 120	16	30
m-Xylene & p-Xylene	0.0200	0.0208		mg/Kg		104	80 - 120	4	30
n-Butylbenzene	0.0200	0.0222		mg/Kg		111	68 - 150	3	30
N-Propylbenzene	0.0200	0.0220		mg/Kg		110	78 - 130	4	30
o-Xylene	0.0200	0.0214		mg/Kg		107	80 - 120	1	30
sec-Butylbenzene	0.0200	0.0218		mg/Kg		109	78 - 136	6	30
Styrene	0.0200	0.0203		mg/Kg		102	80 - 120	2	30
tert-Butylbenzene	0.0200	0.0209		mg/Kg		104	80 - 128	9	30
Tetrachloroethene	0.0200	0.0236		mg/Kg		118	78 - 123	0	30
Toluene	0.0200	0.0214		mg/Kg		107	80 - 120	1	30
trans-1,2-Dichloroethene	0.0200	0.0165		mg/Kg		82	78 - 120	18	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870690/6
Matrix: Solid
Analysis Batch: 870690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			0.0200	0.0187		mg/Kg		93	80 - 120	2	30
Trichloroethene			0.0200	0.0197		mg/Kg		98	79 - 120	3	30
Trichlorofluoromethane			0.0200	0.0186		mg/Kg		93	76 - 142	1	30
Vinyl chloride			0.0200	0.0169		mg/Kg		85	72 - 131	4	30
Xylenes, Total			0.0400	0.0422		mg/Kg		105	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 145*
4-Bromofluorobenzene	*112*		*75 - 139*
Dibromofluoromethane (Surr)	*96*		*73 - 139*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: MB 460-870776/8
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/08/22 11:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/08/22 11:24	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			10/08/22 11:24	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/08/22 11:24	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			10/08/22 11:24	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			10/08/22 11:24	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			10/08/22 11:24	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			10/08/22 11:24	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			10/08/22 11:24	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			10/08/22 11:24	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			10/08/22 11:24	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			10/08/22 11:24	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			10/08/22 11:24	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			10/08/22 11:24	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			10/08/22 11:24	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			10/08/22 11:24	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			10/08/22 11:24	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			10/08/22 11:24	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			10/08/22 11:24	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			10/08/22 11:24	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			10/08/22 11:24	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			10/08/22 11:24	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			10/08/22 11:24	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			10/08/22 11:24	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			10/08/22 11:24	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870776/8
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			10/08/22 11:24	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/08/22 11:24	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			10/08/22 11:24	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			10/08/22 11:24	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			10/08/22 11:24	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			10/08/22 11:24	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/08/22 11:24	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			10/08/22 11:24	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			10/08/22 11:24	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			10/08/22 11:24	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			10/08/22 11:24	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			10/08/22 11:24	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/08/22 11:24	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg			10/08/22 11:24	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			10/08/22 11:24	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			10/08/22 11:24	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			10/08/22 11:24	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			10/08/22 11:24	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			10/08/22 11:24	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			10/08/22 11:24	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			10/08/22 11:24	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			10/08/22 11:24	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			10/08/22 11:24	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			10/08/22 11:24	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			10/08/22 11:24	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			10/08/22 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 145*		*10/08/22 11:24*	*1*
4-Bromofluorobenzene	*112*		*75 - 139*		*10/08/22 11:24*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 139*		*10/08/22 11:24*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/08/22 11:24*	*1*

Lab Sample ID: LCS 460-870776/4
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0188		mg/Kg		94	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0199		mg/Kg		99	66 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0150		mg/Kg		75	75 - 141
1,1,2-Trichloroethane	0.0200	0.0190		mg/Kg		95	80 - 120
1,1-Dichloroethane	0.0200	0.0189		mg/Kg		95	77 - 129
1,1-Dichloroethene	0.0200	0.0146		mg/Kg		73	70 - 132
1,2,3-Trichlorobenzene	0.0200	0.0211		mg/Kg		105	44 - 120
1,2,4-Trichlorobenzene	0.0200	0.0203		mg/Kg		101	68 - 150
1,2,4-Trimethylbenzene	0.0200	0.0203		mg/Kg		102	79 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870776/4
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.0200	0.0178		mg/Kg		89	60 - 124
1,2-Dichlorobenzene	0.0200	0.0200		mg/Kg		100	80 - 120
1,2-Dichloroethane	0.0200	0.0170		mg/Kg		85	75 - 123
1,2-Dichloropropane	0.0200	0.0184		mg/Kg		92	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0209		mg/Kg		105	79 - 120
1,3-Dichlorobenzene	0.0200	0.0203		mg/Kg		102	80 - 120
1,4-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120
2-Butanone (MEK)	0.100	0.0891		mg/Kg		89	75 - 120
2-Hexanone	0.100	0.0865		mg/Kg		87	70 - 128
4-Methyl-2-pentanone (MIBK)	0.100	0.0879		mg/Kg		88	80 - 122
Acetone	0.100	0.0709		mg/Kg		71	63 - 131
Benzene	0.0200	0.0198		mg/Kg		99	80 - 123
Bromoform	0.0200	0.0170		mg/Kg		85	70 - 125
Bromomethane	0.0200	0.0160		mg/Kg		80	64 - 150
Carbon disulfide	0.0200	0.0137	*	mg/Kg		69	76 - 120
Carbon tetrachloride	0.0200	0.0186		mg/Kg		93	77 - 121
Chlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120
Chlorobromomethane	0.0200	0.0178		mg/Kg		89	76 - 127
Chlorodibromomethane	0.0200	0.0184		mg/Kg		92	80 - 120
Chloroethane	0.0200	0.0152		mg/Kg		76	68 - 132
Chloroform	0.0200	0.0179		mg/Kg		90	79 - 126
Chloromethane	0.0200	0.0154		mg/Kg		77	63 - 130
cis-1,2-Dichloroethene	0.0200	0.0175		mg/Kg		88	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0187		mg/Kg		93	80 - 120
Cyclohexane	0.0200	0.0202		mg/Kg		101	70 - 132
Dichlorobromomethane	0.0200	0.0174		mg/Kg		87	73 - 124
Dichlorodifluoromethane	0.0200	0.0168		mg/Kg		84	62 - 150
Ethylbenzene	0.0200	0.0199		mg/Kg		99	76 - 120
Ethylene Dibromide	0.0200	0.0185		mg/Kg		93	79 - 120
Isopropylbenzene	0.0200	0.0203		mg/Kg		102	80 - 120
Methyl acetate	0.0400	0.0325		mg/Kg		81	58 - 143
Methyl tert-butyl ether	0.0200	0.0173		mg/Kg		87	80 - 125
Methylcyclohexane	0.0200	0.0200		mg/Kg		100	70 - 133
Methylene Chloride	0.0200	0.0170		mg/Kg		85	76 - 120
m-Xylene & p-Xylene	0.0200	0.0198		mg/Kg		99	80 - 120
n-Butylbenzene	0.0200	0.0210		mg/Kg		105	68 - 150
N-Propylbenzene	0.0200	0.0209		mg/Kg		104	78 - 130
o-Xylene	0.0200	0.0189		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0200	0.0212		mg/Kg		106	78 - 136
Styrene	0.0200	0.0189		mg/Kg		95	80 - 120
tert-Butylbenzene	0.0200	0.0211		mg/Kg		105	80 - 128
Tetrachloroethene	0.0200	0.0219		mg/Kg		109	78 - 123
Toluene	0.0200	0.0200		mg/Kg		100	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0183		mg/Kg		92	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0180		mg/Kg		90	80 - 120
Trichloroethene	0.0200	0.0193		mg/Kg		96	79 - 120
Trichlorofluoromethane	0.0200	0.0182		mg/Kg		91	76 - 142
Vinyl chloride	0.0200	0.0168		mg/Kg		84	72 - 131
Xylenes, Total	0.0400	0.0387		mg/Kg		97	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		72 - 145
4-Bromofluorobenzene	109		75 - 139
Dibromofluoromethane (Surr)	92		73 - 139
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: LCSD 460-870776/5
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0187		mg/Kg		93	78 - 120	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.0197		mg/Kg		99	66 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0156		mg/Kg		78	75 - 141	4	30
1,1,2-Trichloroethane			0.0200	0.0183		mg/Kg		91	80 - 120	4	30
1,1-Dichloroethane			0.0200	0.0186		mg/Kg		93	77 - 129	2	30
1,1-Dichloroethene			0.0200	0.0146		mg/Kg		73	70 - 132	0	30
1,2,3-Trichlorobenzene			0.0200	0.0213		mg/Kg		106	44 - 120	1	30
1,2,4-Trichlorobenzene			0.0200	0.0209		mg/Kg		105	68 - 150	3	30
1,2,4-Trimethylbenzene			0.0200	0.0208		mg/Kg		104	79 - 120	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0195		mg/Kg		97	60 - 124	9	30
1,2-Dichlorobenzene			0.0200	0.0203		mg/Kg		102	80 - 120	2	30
1,2-Dichloroethane			0.0200	0.0173		mg/Kg		86	75 - 123	2	30
1,2-Dichloropropane			0.0200	0.0188		mg/Kg		94	73 - 124	2	30
1,3,5-Trimethylbenzene			0.0200	0.0208		mg/Kg		104	79 - 120	1	30
1,3-Dichlorobenzene			0.0200	0.0207		mg/Kg		103	80 - 120	2	30
1,4-Dichlorobenzene			0.0200	0.0200		mg/Kg		100	80 - 120	2	30
2-Butanone (MEK)			0.100	0.0867		mg/Kg		87	75 - 120	3	30
2-Hexanone			0.100	0.0858		mg/Kg		86	70 - 128	1	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0878		mg/Kg		88	80 - 122	0	30
Acetone			0.100	0.0714		mg/Kg		71	63 - 131	1	30
Benzene			0.0200	0.0200		mg/Kg		100	80 - 123	1	30
Bromoform			0.0200	0.0171		mg/Kg		85	70 - 125	0	30
Bromomethane			0.0200	0.0170		mg/Kg		85	64 - 150	6	30
Carbon disulfide			0.0200	0.0136	*	mg/Kg		68	76 - 120	1	30
Carbon tetrachloride			0.0200	0.0192		mg/Kg		96	77 - 121	3	30
Chlorobenzene			0.0200	0.0196		mg/Kg		98	80 - 120	1	30
Chlorobromomethane			0.0200	0.0180		mg/Kg		90	76 - 127	1	30
Chlorodibromomethane			0.0200	0.0181		mg/Kg		91	80 - 120	2	30
Chloroethane			0.0200	0.0156		mg/Kg		78	68 - 132	3	30
Chloroform			0.0200	0.0180		mg/Kg		90	79 - 126	0	30
Chloromethane			0.0200	0.0163		mg/Kg		82	63 - 130	6	30
cis-1,2-Dichloroethene			0.0200	0.0176		mg/Kg		88	80 - 123	0	30
cis-1,3-Dichloropropene			0.0200	0.0183		mg/Kg		91	80 - 120	2	30
Cyclohexane			0.0200	0.0198		mg/Kg		99	70 - 132	2	30
Dichlorobromomethane			0.0200	0.0177		mg/Kg		88	73 - 124	2	30
Dichlorodifluoromethane			0.0200	0.0182		mg/Kg		91	62 - 150	8	30
Ethylbenzene			0.0200	0.0196		mg/Kg		98	76 - 120	1	30
Ethylene Dibromide			0.0200	0.0178		mg/Kg		89	79 - 120	4	30
Isopropylbenzene			0.0200	0.0205		mg/Kg		103	80 - 120	1	30
Methyl acetate			0.0400	0.0335		mg/Kg		84	58 - 143	3	30
Methyl tert-butyl ether			0.0200	0.0174		mg/Kg		87	80 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870776/5
Matrix: Solid
Analysis Batch: 870776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane			0.0200	0.0199		mg/Kg		100	70 - 133	0	30
Methylene Chloride			0.0200	0.0171		mg/Kg		85	76 - 120	1	30
m-Xylene & p-Xylene			0.0200	0.0195		mg/Kg		98	80 - 120	2	30
n-Butylbenzene			0.0200	0.0214		mg/Kg		107	68 - 150	2	30
N-Propylbenzene			0.0200	0.0215		mg/Kg		107	78 - 130	3	30
o-Xylene			0.0200	0.0194		mg/Kg		97	80 - 120	2	30
sec-Butylbenzene			0.0200	0.0212		mg/Kg		106	78 - 136	0	30
Styrene			0.0200	0.0188		mg/Kg		94	80 - 120	1	30
tert-Butylbenzene			0.0200	0.0208		mg/Kg		104	80 - 128	1	30
Tetrachloroethene			0.0200	0.0210		mg/Kg		105	78 - 123	4	30
Toluene			0.0200	0.0195		mg/Kg		97	80 - 120	3	30
trans-1,2-Dichloroethene			0.0200	0.0187		mg/Kg		93	78 - 120	2	30
trans-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		89	80 - 120	1	30
Trichloroethene			0.0200	0.0183		mg/Kg		92	79 - 120	5	30
Trichlorofluoromethane			0.0200	0.0190		mg/Kg		95	76 - 142	4	30
Vinyl chloride			0.0200	0.0173		mg/Kg		87	72 - 131	3	30
Xylenes, Total			0.0400	0.0389		mg/Kg		97	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 145*
4-Bromofluorobenzene	*110*		*75 - 139*
Dibromofluoromethane (Surr)	*93*		*73 - 139*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-870137/1-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.010	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
1,4-Dioxane	0.033	U	0.033	0.029	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.034	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.042	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dichlorophenol	0.13	U	0.13	0.021	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dimethylphenol	0.33	U	0.33	0.039	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,4-Dinitrotoluene	0.067	U	0.067	0.036	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2,6-Dinitrotoluene	0.067	U	0.067	0.024	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Chlorophenol	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Methylnaphthalene	0.33	U	0.33	0.0093	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Methylphenol	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Nitroaniline	0.33	U	0.33	0.025	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
2-Nitrophenol	0.33	U	0.33	0.033	mg/Kg		10/04/22 18:31	10/04/22 23:36	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870137/1-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
3-Nitroaniline	0.33	U	0.33	0.079	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.013	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.019	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Chloroaniline	0.33	U	0.33	0.059	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Nitroaniline	0.33	U	0.33	0.038	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Acetophenone	0.33	U	0.33	0.016	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Atrazine	0.13	U	0.13	0.019	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzaldehyde	0.33	U	0.33	0.055	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.026	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Caprolactam	0.33	U	0.33	0.051	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Carbazole	0.33	U	0.33	0.013	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Dibenzofuran	0.33	U	0.33	0.011	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Diethyl phthalate	0.33	U	0.33	0.011	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Dimethyl phthalate	0.33	U	0.33	0.075	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Di-n-butyl phthalate	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachlorobenzene	0.033	U	0.033	0.016	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Hexachloroethane	0.033	U	0.033	0.011	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Isophorone	0.13	U	0.13	0.096	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Nitrobenzene	0.033	U	0.033	0.018	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.024	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.027	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		10/04/22 18:31	10/04/22 23:36	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870137/1-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.33	U	0.33	0.012	mg/Kg		10/04/22 18:31	10/04/22 23:36	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		10/04/22 18:31	10/04/22 23:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 123*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
2-Fluorobiphenyl	*78*		*22 - 122*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
2-Fluorophenol (Surr)	*70*		*18 - 123*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
Nitrobenzene-d5 (Surr)	*72*		*16 - 125*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
Phenol-d5 (Surr)	*71*		*23 - 120*	*10/04/22 18:31*	*10/04/22 23:36*	*1*
Terphenyl-d14 (Surr)	*86*		*25 - 126*	*10/04/22 18:31*	*10/04/22 23:36*	*1*

Lab Sample ID: LCS 460-870137/2-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.04		mg/Kg		91	59 - 120
1,2,4,5-Tetrachlorobenzene	3.33	3.14		mg/Kg		94	60 - 120
1,4-Dioxane	3.33	2.53		mg/Kg		76	21 - 120
2,2'-oxybis[1-chloropropane]	3.33	2.34		mg/Kg		70	49 - 126
2,3,4,6-Tetrachlorophenol	3.33	3.02		mg/Kg		91	54 - 120
2,4,5-Trichlorophenol	3.33	3.01		mg/Kg		90	59 - 120
2,4,6-Trichlorophenol	3.33	2.92		mg/Kg		88	58 - 120
2,4-Dichlorophenol	3.33	2.88		mg/Kg		86	66 - 120
2,4-Dimethylphenol	3.33	2.66		mg/Kg		80	67 - 120
2,4-Dinitrophenol	6.67	6.09		mg/Kg		91	36 - 129
2,4-Dinitrotoluene	3.33	3.02		mg/Kg		91	65 - 124
2,6-Dinitrotoluene	3.33	3.06		mg/Kg		92	67 - 121
2-Chloronaphthalene	3.33	3.02		mg/Kg		91	60 - 120
2-Chlorophenol	3.33	2.73		mg/Kg		82	63 - 120
2-Methylnaphthalene	3.33	2.48		mg/Kg		75	64 - 120
2-Methylphenol	3.33	2.69		mg/Kg		81	63 - 120
2-Nitroaniline	3.33	2.43		mg/Kg		73	48 - 120
2-Nitrophenol	3.33	2.86		mg/Kg		86	64 - 120
3 & 4 Methylphenol	3.33	2.77		mg/Kg		83	61 - 120
3,3'-Dichlorobenzidine	3.33	3.20		mg/Kg		96	13 - 136
3-Nitroaniline	3.33	2.70		mg/Kg		81	39 - 122
4,6-Dinitro-2-methylphenol	6.67	6.20		mg/Kg		93	50 - 136
4-Bromophenyl phenyl ether	3.33	3.07		mg/Kg		92	67 - 120
4-Chloro-3-methylphenol	3.33	2.81		mg/Kg		84	66 - 120
4-Chloroaniline	3.33	2.67		mg/Kg		80	15 - 128
4-Chlorophenyl phenyl ether	3.33	2.95		mg/Kg		88	62 - 120
4-Methylphenol	3.33	2.77		mg/Kg		83	61 - 120
4-Nitroaniline	3.33	2.51		mg/Kg		75	55 - 120
4-Nitrophenol	6.67	5.03		mg/Kg		75	52 - 123
Acenaphthene	3.33	2.65		mg/Kg		79	49 - 120
Acenaphthylene	3.33	2.82		mg/Kg		85	64 - 120
Acetophenone	3.33	2.54		mg/Kg		76	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870137/2-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	3.33	2.85		mg/Kg		86	67 - 120
Atrazine	1.33	1.23		mg/Kg		92	29 - 150
Benzaldehyde	1.33	1.02		mg/Kg		77	34 - 150
Benzo[a]anthracene	3.33	2.93		mg/Kg		88	62 - 120
Benzo[a]pyrene	3.33	2.74		mg/Kg		82	73 - 123
Benzo[b]fluoranthene	3.33	2.94		mg/Kg		88	70 - 125
Benzo[g,h,i]perylene	3.33	3.18		mg/Kg		95	66 - 120
Benzo[k]fluoranthene	3.33	2.93		mg/Kg		88	67 - 122
Bis(2-chloroethoxy)methane	3.33	2.69		mg/Kg		81	62 - 120
Bis(2-chloroethyl)ether	3.33	2.71		mg/Kg		81	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.18		mg/Kg		95	59 - 125
Butyl benzyl phthalate	3.33	3.21		mg/Kg		96	62 - 127
Caprolactam	1.33	1.12		mg/Kg		84	36 - 150
Carbazole	3.33	2.84		mg/Kg		85	64 - 120
Chrysene	3.33	2.77		mg/Kg		83	63 - 120
Dibenz(a,h)anthracene	3.33	3.37		mg/Kg		101	66 - 128
Dibenzofuran	3.33	2.98		mg/Kg		89	61 - 120
Diethyl phthalate	3.33	2.86		mg/Kg		86	63 - 120
Dimethyl phthalate	3.33	3.03		mg/Kg		91	65 - 120
Di-n-butyl phthalate	3.33	2.97		mg/Kg		89	66 - 120
Di-n-octyl phthalate	3.33	3.08		mg/Kg		92	65 - 133
Fluoranthene	3.33	2.79		mg/Kg		84	61 - 120
Fluorene	3.33	2.93		mg/Kg		88	60 - 120
Hexachlorobenzene	3.33	2.97		mg/Kg		89	66 - 120
Hexachlorobutadiene	3.33	2.80		mg/Kg		84	62 - 120
Hexachlorocyclopentadiene	3.33	2.83		mg/Kg		85	38 - 120
Hexachloroethane	3.33	2.75		mg/Kg		82	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.59		mg/Kg		108	62 - 130
Isophorone	3.33	2.72		mg/Kg		82	67 - 120
Naphthalene	3.33	2.77		mg/Kg		83	63 - 120
Nitrobenzene	3.33	2.70		mg/Kg		81	63 - 120
N-Nitrosodi-n-propylamine	3.33	2.55		mg/Kg		76	61 - 120
N-Nitrosodiphenylamine	3.33	2.92		mg/Kg		88	63 - 120
Pentachlorophenol	6.67	5.05		mg/Kg		76	37 - 126
Phenanthrene	3.33	2.86		mg/Kg		86	66 - 120
Phenol	3.33	2.79		mg/Kg		84	63 - 120
Pyrene	3.33	3.01		mg/Kg		90	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 123*
2-Fluorobiphenyl	*79*		*22 - 122*
2-Fluorophenol (Surr)	*73*		*18 - 123*
Nitrobenzene-d5 (Surr)	*72*		*16 - 125*
Phenol-d5 (Surr)	*73*		*23 - 120*
Terphenyl-d14 (Surr)	*84*		*25 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870137/3-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	3.14		mg/Kg		94	59 - 120	3	30
1,2,4,5-Tetrachlorobenzene			3.33	3.23		mg/Kg		97	60 - 120	3	30
1,4-Dioxane			3.33	2.59		mg/Kg		78	21 - 120	2	30
2,2'-oxybis[1-chloropropane]			3.33	2.39		mg/Kg		72	49 - 126	2	30
2,3,4,6-Tetrachlorophenol			3.33	3.10		mg/Kg		93	54 - 120	3	30
2,4,5-Trichlorophenol			3.33	3.14		mg/Kg		94	59 - 120	4	30
2,4,6-Trichlorophenol			3.33	3.01		mg/Kg		90	58 - 120	3	30
2,4-Dichlorophenol			3.33	3.00		mg/Kg		90	66 - 120	4	30
2,4-Dimethylphenol			3.33	2.78		mg/Kg		83	67 - 120	4	30
2,4-Dinitrophenol			6.67	6.46		mg/Kg		97	36 - 129	6	30
2,4-Dinitrotoluene			3.33	3.17		mg/Kg		95	65 - 124	5	30
2,6-Dinitrotoluene			3.33	3.17		mg/Kg		95	67 - 121	3	30
2-Chloronaphthalene			3.33	3.13		mg/Kg		94	60 - 120	4	30
2-Chlorophenol			3.33	2.81		mg/Kg		84	63 - 120	3	30
2-Methylnaphthalene			3.33	2.58		mg/Kg		77	64 - 120	4	30
2-Methylphenol			3.33	2.82		mg/Kg		85	63 - 120	5	30
2-Nitroaniline			3.33	2.52		mg/Kg		76	48 - 120	4	30
2-Nitrophenol			3.33	3.00		mg/Kg		90	64 - 120	5	30
3 & 4 Methylphenol			3.33	2.87		mg/Kg		86	61 - 120	4	30
3,3'-Dichlorobenzidine			3.33	3.38		mg/Kg		101	13 - 136	5	30
3-Nitroaniline			3.33	2.82		mg/Kg		85	39 - 122	4	30
4,6-Dinitro-2-methylphenol			6.67	6.50		mg/Kg		97	50 - 136	5	30
4-Bromophenyl phenyl ether			3.33	3.18		mg/Kg		95	67 - 120	3	30
4-Chloro-3-methylphenol			3.33	2.87		mg/Kg		86	66 - 120	2	30
4-Chloroaniline			3.33	2.68		mg/Kg		80	15 - 128	0	30
4-Chlorophenyl phenyl ether			3.33	3.05		mg/Kg		91	62 - 120	3	30
4-Methylphenol			3.33	2.87		mg/Kg		86	61 - 120	4	30
4-Nitroaniline			3.33	2.71		mg/Kg		81	55 - 120	7	30
4-Nitrophenol			6.67	5.48		mg/Kg		82	52 - 123	9	30
Acenaphthene			3.33	2.72		mg/Kg		82	49 - 120	3	30
Acenaphthylene			3.33	2.90		mg/Kg		87	64 - 120	3	30
Acetophenone			3.33	2.64		mg/Kg		79	61 - 120	4	30
Anthracene			3.33	2.96		mg/Kg		89	67 - 120	4	30
Atrazine			1.33	1.28		mg/Kg		96	29 - 150	4	30
Benzaldehyde			1.33	1.04		mg/Kg		78	34 - 150	2	30
Benzo[a]anthracene			3.33	3.12		mg/Kg		94	62 - 120	6	30
Benzo[a]pyrene			3.33	2.92		mg/Kg		88	73 - 123	6	30
Benzo[b]fluoranthene			3.33	3.12		mg/Kg		94	70 - 125	6	30
Benzo[g,h,i]perylene			3.33	3.39		mg/Kg		102	66 - 120	7	30
Benzo[k]fluoranthene			3.33	3.10		mg/Kg		93	67 - 122	6	30
Bis(2-chloroethoxy)methane			3.33	2.84		mg/Kg		85	62 - 120	5	30
Bis(2-chloroethyl)ether			3.33	2.80		mg/Kg		84	60 - 120	3	30
Bis(2-ethylhexyl) phthalate			3.33	3.30		mg/Kg		99	59 - 125	4	30
Butyl benzyl phthalate			3.33	3.34		mg/Kg		100	62 - 127	4	30
Caprolactam			1.33	1.17		mg/Kg		87	36 - 150	4	30
Carbazole			3.33	2.97		mg/Kg		89	64 - 120	4	30
Chrysene			3.33	2.87		mg/Kg		86	63 - 120	4	30
Dibenz(a,h)anthracene			3.33	3.54		mg/Kg		106	66 - 128	5	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870137/3-A
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			3.33	3.04		mg/Kg		91	61 - 120	2	30
Diethyl phthalate			3.33	2.96		mg/Kg		89	63 - 120	3	30
Dimethyl phthalate			3.33	3.15		mg/Kg		95	65 - 120	4	30
Di-n-butyl phthalate			3.33	3.08		mg/Kg		92	66 - 120	4	30
Di-n-octyl phthalate			3.33	3.25		mg/Kg		97	65 - 133	5	30
Fluoranthene			3.33	2.91		mg/Kg		87	61 - 120	4	30
Fluorene			3.33	3.05		mg/Kg		91	60 - 120	4	30
Hexachlorobenzene			3.33	3.13		mg/Kg		94	66 - 120	5	30
Hexachlorobutadiene			3.33	2.95		mg/Kg		89	62 - 120	5	30
Hexachlorocyclopentadiene			3.33	2.91		mg/Kg		87	38 - 120	3	30
Hexachloroethane			3.33	2.82		mg/Kg		85	61 - 120	3	30
Indeno[1,2,3-cd]pyrene			3.33	3.84		mg/Kg		115	62 - 130	7	30
Isophorone			3.33	2.83		mg/Kg		85	67 - 120	4	30
Naphthalene			3.33	2.88		mg/Kg		86	63 - 120	4	30
Nitrobenzene			3.33	2.80		mg/Kg		84	63 - 120	4	30
N-Nitrosodi-n-propylamine			3.33	2.64		mg/Kg		79	61 - 120	3	30
N-Nitrosodiphenylamine			3.33	3.04		mg/Kg		91	63 - 120	4	30
Pentachlorophenol			6.67	5.35		mg/Kg		80	37 - 126	6	30
Phenanthrene			3.33	2.94		mg/Kg		88	66 - 120	3	30
Phenol			3.33	2.87		mg/Kg		86	63 - 120	3	30
Pyrene			3.33	3.18		mg/Kg		95	61 - 121	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*10 - 123*
2-Fluorobiphenyl	*81*		*22 - 122*
2-Fluorophenol (Surr)	*76*		*18 - 123*
Nitrobenzene-d5 (Surr)	*74*		*16 - 125*
Phenol-d5 (Surr)	*75*		*23 - 120*
Terphenyl-d14 (Surr)	*86*		*25 - 126*

Lab Sample ID: 460-266779-B-1-B MS
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.35	U	3.54	3.24		mg/Kg	☼	92	59 - 120
1,2,4,5-Tetrachlorobenzene	0.35	U	3.54	3.29		mg/Kg	☼	93	60 - 120
1,4-Dioxane	0.035	U	3.54	2.23		mg/Kg	☼	63	21 - 120
2,2'-oxybis[1-chloropropane]	0.35	U	3.54	2.46		mg/Kg	☼	70	49 - 126
2,3,4,6-Tetrachlorophenol	0.35	U	3.54	3.13		mg/Kg	☼	89	54 - 120
2,4,5-Trichlorophenol	0.35	U	3.54	3.16		mg/Kg	☼	89	59 - 120
2,4,6-Trichlorophenol	0.14	U	3.54	3.17		mg/Kg	☼	90	58 - 120
2,4-Dichlorophenol	0.14	U	3.54	3.17		mg/Kg	☼	90	66 - 120
2,4-Dimethylphenol	0.35	U	3.54	2.98		mg/Kg	☼	84	67 - 120
2,4-Dinitrophenol	0.28	U	7.08	3.83		mg/Kg	☼	54	36 - 129
2,4-Dinitrotoluene	0.071	U	3.54	3.19		mg/Kg	☼	90	65 - 124
2,6-Dinitrotoluene	0.071	U	3.54	3.21		mg/Kg	☼	91	67 - 121
2-Chloronaphthalene	0.35	U	3.54	3.26		mg/Kg	☼	92	60 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-B MS
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	0.35	U	3.54	2.97		mg/Kg	☼	84	63 - 120
2-Methylnaphthalene	0.18	J	3.54	2.88		mg/Kg	☼	76	64 - 120
2-Methylphenol	0.35	U	3.54	2.95		mg/Kg	☼	83	63 - 120
2-Nitroaniline	0.35	U	3.54	2.63		mg/Kg	☼	74	48 - 120
2-Nitrophenol	0.35	U	3.54	3.07		mg/Kg	☼	87	64 - 120
3 & 4 Methylphenol	0.35	U	3.54	3.11		mg/Kg	☼	88	61 - 120
3,3'-Dichlorobenzidine	0.14	U	3.54	1.69		mg/Kg	☼	48	13 - 136
3-Nitroaniline	0.35	U	3.54	2.21		mg/Kg	☼	62	39 - 122
4,6-Dinitro-2-methylphenol	0.28	U	7.08	5.09		mg/Kg	☼	72	50 - 136
4-Bromophenyl phenyl ether	0.35	U	3.54	3.29		mg/Kg	☼	93	67 - 120
4-Chloro-3-methylphenol	0.35	U	3.54	3.06		mg/Kg	☼	87	66 - 120
4-Chloroaniline	0.35	U	3.54	1.54		mg/Kg	☼	43	15 - 128
4-Chlorophenyl phenyl ether	0.35	U	3.54	3.18		mg/Kg	☼	90	62 - 120
4-Methylphenol	0.35	U	3.54	3.11		mg/Kg	☼	88	61 - 120
4-Nitroaniline	0.35	U	3.54	2.58		mg/Kg	☼	73	55 - 120
4-Nitrophenol	0.71	U	7.08	5.33		mg/Kg	☼	75	52 - 123
Acenaphthene	0.35	U	3.54	2.87		mg/Kg	☼	81	49 - 120
Acenaphthylene	0.35	U	3.54	2.99		mg/Kg	☼	85	64 - 120
Acetophenone	0.35	U	3.54	2.82		mg/Kg	☼	80	61 - 120
Anthracene	0.35	U	3.54	3.06		mg/Kg	☼	86	67 - 120
Atrazine	0.14	U	1.42	1.38		mg/Kg	☼	98	29 - 150
Benzaldehyde	0.35	U	1.42	1.16	E	mg/Kg	☼	82	34 - 150
Benzo[a]anthracene	0.016	J	3.54	3.16		mg/Kg	☼	89	62 - 120
Benzo[a]pyrene	0.035	U	3.54	2.92		mg/Kg	☼	83	73 - 123
Benzo[b]fluoranthene	0.011	J	3.54	3.24		mg/Kg	☼	91	70 - 125
Benzo[g,h,i]perylene	0.35	U	3.54	3.35		mg/Kg	☼	95	66 - 120
Benzo[k]fluoranthene	0.035	U	3.54	3.09		mg/Kg	☼	87	67 - 122
Bis(2-chloroethoxy)methane	0.35	U	3.54	2.96		mg/Kg	☼	84	62 - 120
Bis(2-chloroethyl)ether	0.035	U	3.54	2.90		mg/Kg	☼	82	60 - 120
Bis(2-ethylhexyl) phthalate	0.023	J	3.54	3.42		mg/Kg	☼	96	59 - 125
Butyl benzyl phthalate	0.35	U	3.54	3.48		mg/Kg	☼	98	62 - 127
Caprolactam	0.35	U	1.42	1.30		mg/Kg	☼	92	36 - 150
Carbazole	0.35	U	3.54	2.96		mg/Kg	☼	84	64 - 120
Chrysene	0.014	J	3.54	2.89		mg/Kg	☼	81	63 - 120
Dibenz(a,h)anthracene	0.035	U	3.54	3.54		mg/Kg	☼	100	66 - 128
Dibenzofuran	0.35	U	3.54	3.18		mg/Kg	☼	90	61 - 120
Diethyl phthalate	0.35	U	3.54	3.02		mg/Kg	☼	85	63 - 120
Dimethyl phthalate	0.35	U	3.54	3.25		mg/Kg	☼	92	65 - 120
Di-n-butyl phthalate	0.35	U	3.54	3.16		mg/Kg	☼	89	66 - 120
Di-n-octyl phthalate	0.35	U	3.54	3.44		mg/Kg	☼	97	65 - 133
Fluoranthene	0.031	J	3.54	2.92		mg/Kg	☼	82	61 - 120
Fluorene	0.35	U	3.54	3.14		mg/Kg	☼	89	60 - 120
Hexachlorobenzene	0.035	U	3.54	3.21		mg/Kg	☼	91	66 - 120
Hexachlorobutadiene	0.071	U	3.54	3.00		mg/Kg	☼	85	62 - 120
Hexachlorocyclopentadiene	0.35	U	3.54	2.95		mg/Kg	☼	83	38 - 120
Hexachloroethane	0.035	U	3.54	2.91		mg/Kg	☼	82	61 - 120
Indeno[1,2,3-cd]pyrene	0.035	U	3.54	3.74		mg/Kg	☼	106	62 - 130
Isophorone	0.14	U	3.54	2.95		mg/Kg	☼	83	67 - 120
Naphthalene	0.054	J	3.54	3.05		mg/Kg	☼	85	63 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-B MS
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrobenzene	0.035	U	3.54	2.94		mg/Kg	☼	83	63 - 120
N-Nitrosodi-n-propylamine	0.035	U	3.54	2.78		mg/Kg	☼	79	61 - 120
N-Nitrosodiphenylamine	0.35	U	3.54	3.16		mg/Kg	☼	89	63 - 120
Pentachlorophenol	0.28	U	7.08	5.02		mg/Kg	☼	71	37 - 126
Phenanthrene	0.038	J	3.54	3.07		mg/Kg	☼	86	66 - 120
Phenol	0.35	U	3.54	3.08		mg/Kg	☼	87	63 - 120
Pyrene	0.027	J	3.54	3.53		mg/Kg	☼	99	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 123*
2-Fluorobiphenyl	*79*		*22 - 122*
2-Fluorophenol (Surr)	*77*		*18 - 123*
Nitrobenzene-d5 (Surr)	*72*		*16 - 125*
Phenol-d5 (Surr)	*75*		*23 - 120*
Terphenyl-d14 (Surr)	*89*		*25 - 126*

Lab Sample ID: 460-266779-B-1-C MSD
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.35	U	3.54	3.16		mg/Kg	☼	89	59 - 120	3	30
1,2,4,5-Tetrachlorobenzene	0.35	U	3.54	3.21		mg/Kg	☼	91	60 - 120	3	30
1,4-Dioxane	0.035	U	3.54	2.10		mg/Kg	☼	59	21 - 120	6	30
2,2'-oxybis[1-chloropropane]	0.35	U	3.54	2.38		mg/Kg	☼	67	49 - 126	3	30
2,3,4,6-Tetrachlorophenol	0.35	U	3.54	3.08		mg/Kg	☼	87	54 - 120	2	30
2,4,5-Trichlorophenol	0.35	U	3.54	3.12		mg/Kg	☼	88	59 - 120	1	30
2,4,6-Trichlorophenol	0.14	U	3.54	3.08		mg/Kg	☼	87	58 - 120	3	30
2,4-Dichlorophenol	0.14	U	3.54	3.14		mg/Kg	☼	89	66 - 120	1	30
2,4-Dimethylphenol	0.35	U	3.54	2.88		mg/Kg	☼	81	67 - 120	3	30
2,4-Dinitrophenol	0.28	U	7.08	3.74		mg/Kg	☼	53	36 - 129	3	30
2,4-Dinitrotoluene	0.071	U	3.54	3.16		mg/Kg	☼	89	65 - 124	1	30
2,6-Dinitrotoluene	0.071	U	3.54	3.25		mg/Kg	☼	92	67 - 121	1	30
2-Chloronaphthalene	0.35	U	3.54	3.12		mg/Kg	☼	88	60 - 120	4	30
2-Chlorophenol	0.35	U	3.54	2.91		mg/Kg	☼	82	63 - 120	2	30
2-Methylnaphthalene	0.18	J	3.54	2.87		mg/Kg	☼	76	64 - 120	0	30
2-Methylphenol	0.35	U	3.54	2.98		mg/Kg	☼	84	63 - 120	1	30
2-Nitroaniline	0.35	U	3.54	2.52		mg/Kg	☼	71	48 - 120	4	30
2-Nitrophenol	0.35	U	3.54	3.02		mg/Kg	☼	85	64 - 120	2	30
3 & 4 Methylphenol	0.35	U	3.54	3.05		mg/Kg	☼	86	61 - 120	2	30
3,3'-Dichlorobenzidine	0.14	U	3.54	1.74		mg/Kg	☼	49	13 - 136	3	30
3-Nitroaniline	0.35	U	3.54	2.21		mg/Kg	☼	63	39 - 122	0	30
4,6-Dinitro-2-methylphenol	0.28	U	7.08	4.92		mg/Kg	☼	69	50 - 136	3	30
4-Bromophenyl phenyl ether	0.35	U	3.54	3.18		mg/Kg	☼	90	67 - 120	3	30
4-Chloro-3-methylphenol	0.35	U	3.54	3.03		mg/Kg	☼	86	66 - 120	1	30
4-Chloroaniline	0.35	U	3.54	1.60		mg/Kg	☼	45	15 - 128	4	30
4-Chlorophenyl phenyl ether	0.35	U	3.54	3.12		mg/Kg	☼	88	62 - 120	2	30
4-Methylphenol	0.35	U	3.54	3.05		mg/Kg	☼	86	61 - 120	2	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-C MSD
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitroaniline	0.35	U	3.54	2.57		mg/Kg	☼	73	55 - 120	0	30
4-Nitrophenol	0.71	U	7.08	5.36		mg/Kg	☼	76	52 - 123	1	30
Acenaphthene	0.35	U	3.54	2.78		mg/Kg	☼	79	49 - 120	3	30
Acenaphthylene	0.35	U	3.54	2.97		mg/Kg	☼	84	64 - 120	1	30
Acetophenone	0.35	U	3.54	2.72		mg/Kg	☼	77	61 - 120	4	30
Anthracene	0.35	U	3.54	2.98		mg/Kg	☼	84	67 - 120	3	30
Atrazine	0.14	U	1.42	1.41		mg/Kg	☼	100	29 - 150	2	30
Benzaldehyde	0.35	U	1.42	1.16	E	mg/Kg	☼	82	34 - 150	0	30
Benzo[a]anthracene	0.016	J	3.54	3.04		mg/Kg	☼	85	62 - 120	4	30
Benzo[a]pyrene	0.035	U	3.54	2.86		mg/Kg	☼	81	73 - 123	2	30
Benzo[b]fluoranthene	0.011	J	3.54	3.18		mg/Kg	☼	90	70 - 125	2	30
Benzo[g,h,i]perylene	0.35	U	3.54	3.29		mg/Kg	☼	93	66 - 120	2	30
Benzo[k]fluoranthene	0.035	U	3.54	3.04		mg/Kg	☼	86	67 - 122	2	30
Bis(2-chloroethoxy)methane	0.35	U	3.54	2.89		mg/Kg	☼	82	62 - 120	2	30
Bis(2-chloroethyl)ether	0.035	U	3.54	2.80		mg/Kg	☼	79	60 - 120	4	30
Bis(2-ethylhexyl) phthalate	0.023	J	3.54	3.28		mg/Kg	☼	92	59 - 125	4	30
Butyl benzyl phthalate	0.35	U	3.54	3.41		mg/Kg	☼	96	62 - 127	2	30
Caprolactam	0.35	U	1.42	1.31		mg/Kg	☼	93	36 - 150	1	30
Carbazole	0.35	U	3.54	2.93		mg/Kg	☼	83	64 - 120	1	30
Chrysene	0.014	J	3.54	2.87		mg/Kg	☼	81	63 - 120	1	30
Dibenz(a,h)anthracene	0.035	U	3.54	3.48		mg/Kg	☼	98	66 - 128	2	30
Dibenzofuran	0.35	U	3.54	3.12		mg/Kg	☼	88	61 - 120	2	30
Diethyl phthalate	0.35	U	3.54	3.03		mg/Kg	☼	86	63 - 120	0	30
Dimethyl phthalate	0.35	U	3.54	3.20		mg/Kg	☼	91	65 - 120	1	30
Di-n-butyl phthalate	0.35	U	3.54	3.09		mg/Kg	☼	87	66 - 120	2	30
Di-n-octyl phthalate	0.35	U	3.54	3.27		mg/Kg	☼	92	65 - 133	5	30
Fluoranthene	0.031	J	3.54	2.91		mg/Kg	☼	81	61 - 120	0	30
Fluorene	0.35	U	3.54	3.09		mg/Kg	☼	87	60 - 120	1	30
Hexachlorobenzene	0.035	U	3.54	3.12		mg/Kg	☼	88	66 - 120	3	30
Hexachlorobutadiene	0.071	U	3.54	2.91		mg/Kg	☼	82	62 - 120	3	30
Hexachlorocyclopentadiene	0.35	U	3.54	2.81		mg/Kg	☼	79	38 - 120	5	30
Hexachloroethane	0.035	U	3.54	2.77		mg/Kg	☼	78	61 - 120	5	30
Indeno[1,2,3-cd]pyrene	0.035	U	3.54	3.68		mg/Kg	☼	104	62 - 130	2	30
Isophorone	0.14	U	3.54	2.85		mg/Kg	☼	80	67 - 120	4	30
Naphthalene	0.054	J	3.54	2.97		mg/Kg	☼	82	63 - 120	3	30
Nitrobenzene	0.035	U	3.54	2.89		mg/Kg	☼	82	63 - 120	2	30
N-Nitrosodi-n-propylamine	0.035	U	3.54	2.75		mg/Kg	☼	78	61 - 120	1	30
N-Nitrosodiphenylamine	0.35	U	3.54	3.06		mg/Kg	☼	86	63 - 120	3	30
Pentachlorophenol	0.28	U	7.08	5.24		mg/Kg	☼	74	37 - 126	4	30
Phenanthrene	0.038	J	3.54	3.02		mg/Kg	☼	84	66 - 120	2	30
Phenol	0.35	U	3.54	3.00		mg/Kg	☼	85	63 - 120	3	30
Pyrene	0.027	J	3.54	3.29		mg/Kg	☼	92	61 - 121	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 123*
2-Fluorobiphenyl	*78*		*22 - 122*
2-Fluorophenol (Surr)	*75*		*18 - 123*
Nitrobenzene-d5 (Surr)	*70*		*16 - 125*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266779-B-1-C MSD
Matrix: Solid
Analysis Batch: 870154

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870137

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*74*		*23 - 120*
Terphenyl-d14 (Surr)	*85*		*25 - 126*

Lab Sample ID: MB 460-870226/1-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.010	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
1,4-Dioxane	0.033	U	0.033	0.029	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.034	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.042	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dichlorophenol	0.13	U	0.13	0.021	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dimethylphenol	0.33	U	0.33	0.039	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,4-Dinitrotoluene	0.067	U	0.067	0.036	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2,6-Dinitrotoluene	0.067	U	0.067	0.024	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Chlorophenol	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Methylnaphthalene	0.33	U	0.33	0.0093	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Methylphenol	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Nitroaniline	0.33	U	0.33	0.025	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
2-Nitrophenol	0.33	U	0.33	0.033	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
3 & 4 Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
3-Nitroaniline	0.33	U	0.33	0.079	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.013	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.019	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Chloroaniline	0.33	U	0.33	0.059	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Nitroaniline	0.33	U	0.33	0.038	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Acetophenone	0.33	U	0.33	0.016	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Atrazine	0.13	U	0.13	0.019	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzaldehyde	0.33	U	0.33	0.055	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		10/05/22 10:12	10/05/22 19:45	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870226/1-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.026	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Caprolactam	0.33	U	0.33	0.051	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Carbazole	0.33	U	0.33	0.013	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Dibenzofuran	0.33	U	0.33	0.011	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Diethyl phthalate	0.33	U	0.33	0.011	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Dimethyl phthalate	0.33	U	0.33	0.075	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Di-n-butyl phthalate	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachlorobenzene	0.033	U	0.033	0.016	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Hexachloroethane	0.033	U	0.033	0.011	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Isophorone	0.13	U	0.13	0.096	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Nitrobenzene	0.033	U	0.033	0.018	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.024	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.027	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Phenol	0.33	U	0.33	0.012	mg/Kg		10/05/22 10:12	10/05/22 19:45	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		10/05/22 10:12	10/05/22 19:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*10 - 123*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
2-Fluorobiphenyl	*97*		*22 - 122*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
2-Fluorophenol (Surr)	*82*		*18 - 123*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
Nitrobenzene-d5 (Surr)	*88*		*16 - 125*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
Phenol-d5 (Surr)	*81*		*23 - 120*	*10/05/22 10:12*	*10/05/22 19:45*	*1*
Terphenyl-d14 (Surr)	*105*		*25 - 126*	*10/05/22 10:12*	*10/05/22 19:45*	*1*

Lab Sample ID: LCS 460-870226/2-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.88		mg/Kg		86	59 - 120
1,2,4,5-Tetrachlorobenzene	3.33	2.98		mg/Kg		89	60 - 120
1,4-Dioxane	3.33	1.75		mg/Kg		52	21 - 120
2,2'-oxybis[1-chloropropane]	3.33	2.27		mg/Kg		68	49 - 126
2,3,4,6-Tetrachlorophenol	3.33	3.08		mg/Kg		92	54 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870226/2-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	3.33	2.80		mg/Kg		84	59 - 120
2,4,6-Trichlorophenol	3.33	3.04		mg/Kg		91	58 - 120
2,4-Dichlorophenol	3.33	2.92		mg/Kg		88	66 - 120
2,4-Dimethylphenol	3.33	2.76		mg/Kg		83	67 - 120
2,4-Dinitrophenol	6.67	5.97		mg/Kg		90	36 - 129
2,4-Dinitrotoluene	3.33	3.32		mg/Kg		100	65 - 124
2,6-Dinitrotoluene	3.33	3.23		mg/Kg		97	67 - 121
2-Chloronaphthalene	3.33	2.87		mg/Kg		86	60 - 120
2-Chlorophenol	3.33	2.51		mg/Kg		75	63 - 120
2-Methylnaphthalene	3.33	2.53		mg/Kg		76	64 - 120
2-Methylphenol	3.33	2.52		mg/Kg		76	63 - 120
2-Nitroaniline	3.33	2.74		mg/Kg		82	48 - 120
2-Nitrophenol	3.33	2.85		mg/Kg		86	64 - 120
3 & 4 Methylphenol	3.33	2.56		mg/Kg		77	61 - 120
3,3'-Dichlorobenzidine	3.33	2.72		mg/Kg		81	13 - 136
3-Nitroaniline	3.33	2.43		mg/Kg		73	39 - 122
4,6-Dinitro-2-methylphenol	6.67	6.81		mg/Kg		102	50 - 136
4-Bromophenyl phenyl ether	3.33	2.90		mg/Kg		87	67 - 120
4-Chloro-3-methylphenol	3.33	2.87		mg/Kg		86	66 - 120
4-Chloroaniline	3.33	2.19		mg/Kg		66	15 - 128
4-Chlorophenyl phenyl ether	3.33	3.01		mg/Kg		90	62 - 120
4-Methylphenol	3.33	2.56		mg/Kg		77	61 - 120
4-Nitroaniline	3.33	2.74		mg/Kg		82	55 - 120
4-Nitrophenol	6.67	4.73		mg/Kg		71	52 - 123
Acenaphthene	3.33	2.90		mg/Kg		87	49 - 120
Acenaphthylene	3.33	2.76		mg/Kg		83	64 - 120
Acetophenone	3.33	2.44		mg/Kg		73	61 - 120
Anthracene	3.33	2.88		mg/Kg		87	67 - 120
Atrazine	1.33	2.70	*	mg/Kg		202	29 - 150
Benzaldehyde	1.33	1.43		mg/Kg		107	34 - 150
Benzo[a]anthracene	3.33	3.10		mg/Kg		93	62 - 120
Benzo[a]pyrene	3.33	3.12		mg/Kg		94	73 - 123
Benzo[b]fluoranthene	3.33	3.28		mg/Kg		98	70 - 125
Benzo[g,h,i]perylene	3.33	2.91		mg/Kg		87	66 - 120
Benzo[k]fluoranthene	3.33	3.42		mg/Kg		103	67 - 122
Bis(2-chloroethoxy)methane	3.33	2.47		mg/Kg		74	62 - 120
Bis(2-chloroethyl)ether	3.33	2.34		mg/Kg		70	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.19		mg/Kg		96	59 - 125
Butyl benzyl phthalate	3.33	3.14		mg/Kg		94	62 - 127
Caprolactam	1.33	2.59	*	mg/Kg		194	36 - 150
Carbazole	3.33	2.86		mg/Kg		86	64 - 120
Chrysene	3.33	2.86		mg/Kg		86	63 - 120
Dibenz(a,h)anthracene	3.33	3.32		mg/Kg		99	66 - 128
Dibenzofuran	3.33	3.01		mg/Kg		90	61 - 120
Diethyl phthalate	3.33	3.06		mg/Kg		92	63 - 120
Dimethyl phthalate	3.33	2.96		mg/Kg		89	65 - 120
Di-n-butyl phthalate	3.33	3.07		mg/Kg		92	66 - 120
Di-n-octyl phthalate	3.33	3.33		mg/Kg		100	65 - 133
Fluoranthene	3.33	2.96		mg/Kg		89	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870226/2-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	3.33	2.97		mg/Kg		89	60 - 120
Hexachlorobenzene	3.33	2.72		mg/Kg		82	66 - 120
Hexachlorobutadiene	3.33	2.90		mg/Kg		87	62 - 120
Hexachlorocyclopentadiene	3.33	2.49		mg/Kg		75	38 - 120
Hexachloroethane	3.33	2.41		mg/Kg		72	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	2.71		mg/Kg		81	62 - 130
Isophorone	3.33	2.60		mg/Kg		78	67 - 120
Naphthalene	3.33	2.75		mg/Kg		82	63 - 120
Nitrobenzene	3.33	2.58		mg/Kg		78	63 - 120
N-Nitrosodi-n-propylamine	3.33	2.28		mg/Kg		68	61 - 120
N-Nitrosodiphenylamine	3.33	2.82		mg/Kg		85	63 - 120
Pentachlorophenol	6.67	5.29		mg/Kg		79	37 - 126
Phenanthrene	3.33	2.86		mg/Kg		86	66 - 120
Phenol	3.33	2.50		mg/Kg		75	63 - 120
Pyrene	3.33	2.93		mg/Kg		88	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*10 - 123*
2-Fluorobiphenyl	*96*		*22 - 122*
2-Fluorophenol (Surr)	*83*		*18 - 123*
Nitrobenzene-d5 (Surr)	*88*		*16 - 125*
Phenol-d5 (Surr)	*81*		*23 - 120*
Terphenyl-d14 (Surr)	*102*		*25 - 126*

Lab Sample ID: LCSD 460-870226/3-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	2.88		mg/Kg		86	59 - 120	0	30
1,2,4,5-Tetrachlorobenzene	3.33	2.99		mg/Kg		90	60 - 120	0	30
1,4-Dioxane	3.33	1.80		mg/Kg		54	21 - 120	3	30
2,2'-oxybis[1-chloropropane]	3.33	2.34		mg/Kg		70	49 - 126	3	30
2,3,4,6-Tetrachlorophenol	3.33	3.13		mg/Kg		94	54 - 120	2	30
2,4,5-Trichlorophenol	3.33	3.06		mg/Kg		92	59 - 120	9	30
2,4,6-Trichlorophenol	3.33	3.09		mg/Kg		93	58 - 120	2	30
2,4-Dichlorophenol	3.33	2.98		mg/Kg		89	66 - 120	2	30
2,4-Dimethylphenol	3.33	2.81		mg/Kg		84	67 - 120	2	30
2,4-Dinitrophenol	6.67	6.57		mg/Kg		99	36 - 129	9	30
2,4-Dinitrotoluene	3.33	3.33		mg/Kg		100	65 - 124	0	30
2,6-Dinitrotoluene	3.33	3.24		mg/Kg		97	67 - 121	0	30
2-Chloronaphthalene	3.33	2.94		mg/Kg		88	60 - 120	2	30
2-Chlorophenol	3.33	2.61		mg/Kg		78	63 - 120	4	30
2-Methylnaphthalene	3.33	2.56		mg/Kg		77	64 - 120	1	30
2-Methylphenol	3.33	2.53		mg/Kg		76	63 - 120	0	30
2-Nitroaniline	3.33	2.82		mg/Kg		85	48 - 120	3	30
2-Nitrophenol	3.33	3.02		mg/Kg		91	64 - 120	6	30
3 & 4 Methylphenol	3.33	2.55		mg/Kg		77	61 - 120	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870226/3-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	3.33	2.77		mg/Kg		83	13 - 136	2	30
3-Nitroaniline	3.33	2.54		mg/Kg		76	39 - 122	4	30
4,6-Dinitro-2-methylphenol	6.67	7.14		mg/Kg		107	50 - 136	5	30
4-Bromophenyl phenyl ether	3.33	2.94		mg/Kg		88	67 - 120	1	30
4-Chloro-3-methylphenol	3.33	2.91		mg/Kg		87	66 - 120	1	30
4-Chloroaniline	3.33	2.12		mg/Kg		64	15 - 128	3	30
4-Chlorophenyl phenyl ether	3.33	3.07		mg/Kg		92	62 - 120	2	30
4-Methylphenol	3.33	2.55		mg/Kg		77	61 - 120	0	30
4-Nitroaniline	3.33	2.79		mg/Kg		84	55 - 120	2	30
4-Nitrophenol	6.67	4.96		mg/Kg		74	52 - 123	5	30
Acenaphthene	3.33	2.94		mg/Kg		88	49 - 120	1	30
Acenaphthylene	3.33	2.79		mg/Kg		84	64 - 120	1	30
Acetophenone	3.33	2.52		mg/Kg		76	61 - 120	3	30
Anthracene	3.33	2.90		mg/Kg		87	67 - 120	1	30
Atrazine	1.33	2.74	*	mg/Kg		206	29 - 150	2	30
Benzaldehyde	1.33	1.48		mg/Kg		111	34 - 150	4	30
Benzo[a]anthracene	3.33	3.13		mg/Kg		94	62 - 120	1	30
Benzo[a]pyrene	3.33	3.14		mg/Kg		94	73 - 123	1	30
Benzo[b]fluoranthene	3.33	3.28		mg/Kg		98	70 - 125	0	30
Benzo[g,h,i]perylene	3.33	2.91		mg/Kg		87	66 - 120	0	30
Benzo[k]fluoranthene	3.33	3.39		mg/Kg		102	67 - 122	1	30
Bis(2-chloroethoxy)methane	3.33	2.53		mg/Kg		76	62 - 120	2	30
Bis(2-chloroethyl)ether	3.33	2.37		mg/Kg		71	60 - 120	2	30
Bis(2-ethylhexyl) phthalate	3.33	3.17		mg/Kg		95	59 - 125	1	30
Butyl benzyl phthalate	3.33	3.20		mg/Kg		96	62 - 127	2	30
Caprolactam	1.33	2.73	*	mg/Kg		205	36 - 150	5	30
Carbazole	3.33	2.85		mg/Kg		86	64 - 120	0	30
Chrysene	3.33	2.87		mg/Kg		86	63 - 120	1	30
Dibenz(a,h)anthracene	3.33	3.30		mg/Kg		99	66 - 128	1	30
Dibenzofuran	3.33	3.01		mg/Kg		90	61 - 120	0	30
Diethyl phthalate	3.33	3.08		mg/Kg		93	63 - 120	1	30
Dimethyl phthalate	3.33	3.04		mg/Kg		91	65 - 120	3	30
Di-n-butyl phthalate	3.33	3.07		mg/Kg		92	66 - 120	0	30
Di-n-octyl phthalate	3.33	3.34		mg/Kg		100	65 - 133	0	30
Fluoranthene	3.33	2.97		mg/Kg		89	61 - 120	0	30
Fluorene	3.33	3.06		mg/Kg		92	60 - 120	3	30
Hexachlorobenzene	3.33	2.70		mg/Kg		81	66 - 120	1	30
Hexachlorobutadiene	3.33	2.98		mg/Kg		89	62 - 120	3	30
Hexachlorocyclopentadiene	3.33	2.55		mg/Kg		77	38 - 120	3	30
Hexachloroethane	3.33	2.48		mg/Kg		74	61 - 120	3	30
Indeno[1,2,3-cd]pyrene	3.33	2.98		mg/Kg		89	62 - 130	10	30
Isophorone	3.33	2.65		mg/Kg		80	67 - 120	2	30
Naphthalene	3.33	2.86		mg/Kg		86	63 - 120	4	30
Nitrobenzene	3.33	2.66		mg/Kg		80	63 - 120	3	30
N-Nitrosodi-n-propylamine	3.33	2.37		mg/Kg		71	61 - 120	4	30
N-Nitrosodiphenylamine	3.33	2.83		mg/Kg		85	63 - 120	0	30
Pentachlorophenol	6.67	5.40		mg/Kg		81	37 - 126	2	30
Phenanthrene	3.33	2.86		mg/Kg		86	66 - 120	0	30
Phenol	3.33	2.55		mg/Kg		77	63 - 120	2	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870226/3-A
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870226

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene			3.33	2.99		mg/Kg		90	61 - 121	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*10 - 123*
2-Fluorobiphenyl	*100*		*22 - 122*
2-Fluorophenol (Surr)	*87*		*18 - 123*
Nitrobenzene-d5 (Surr)	*91*		*16 - 125*
Phenol-d5 (Surr)	*85*		*23 - 120*
Terphenyl-d14 (Surr)	*106*		*25 - 126*

Lab Sample ID: 460-266802-E-4-A MS
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.39	U	3.92	3.30		mg/Kg	☼	84	59 - 120
1,2,4,5-Tetrachlorobenzene	0.39	U	3.92	3.43		mg/Kg	☼	88	60 - 120
1,4-Dioxane	0.039	U	3.92	1.86		mg/Kg	☼	47	21 - 120
2,2'-oxybis[1-chloropropane]	0.39	U	3.92	2.63		mg/Kg	☼	67	49 - 126
2,3,4,6-Tetrachlorophenol	0.39	U	3.92	3.65		mg/Kg	☼	93	54 - 120
2,4,5-Trichlorophenol	0.39	U	3.92	3.45		mg/Kg	☼	88	59 - 120
2,4,6-Trichlorophenol	0.16	U	3.92	3.63		mg/Kg	☼	93	58 - 120
2,4-Dichlorophenol	0.16	U	3.92	3.39		mg/Kg	☼	87	66 - 120
2,4-Dimethylphenol	0.39	U	3.92	3.18		mg/Kg	☼	81	67 - 120
2,4-Dinitrophenol	0.31	U	7.84	4.77		mg/Kg	☼	61	36 - 129
2,4-Dinitrotoluene	0.079	U	3.92	3.93		mg/Kg	☼	100	65 - 124
2,6-Dinitrotoluene	0.079	U	3.92	3.85		mg/Kg	☼	98	67 - 121
2-Chloronaphthalene	0.39	U	3.92	3.36		mg/Kg	☼	86	60 - 120
2-Chlorophenol	0.39	U	3.92	2.98		mg/Kg	☼	76	63 - 120
2-Methylnaphthalene	0.39	U	3.92	2.91		mg/Kg	☼	74	64 - 120
2-Methylphenol	0.39	U	3.92	2.97		mg/Kg	☼	76	63 - 120
2-Nitroaniline	0.39	U	3.92	3.29		mg/Kg	☼	84	48 - 120
2-Nitrophenol	0.39	U	3.92	3.35		mg/Kg	☼	85	64 - 120
3 & 4 Methylphenol	0.39	U	3.92	2.94		mg/Kg	☼	75	61 - 120
3,3'-Dichlorobenzidine	0.16	U	3.92	3.55		mg/Kg	☼	91	13 - 136
3-Nitroaniline	0.39	U	3.92	3.32		mg/Kg	☼	85	39 - 122
4,6-Dinitro-2-methylphenol	0.31	U	7.84	7.22		mg/Kg	☼	92	50 - 136
4-Bromophenyl phenyl ether	0.39	U	3.92	3.34		mg/Kg	☼	85	67 - 120
4-Chloro-3-methylphenol	0.39	U	3.92	3.37		mg/Kg	☼	86	66 - 120
4-Chloroaniline	0.39	U	3.92	2.96		mg/Kg	☼	76	15 - 128
4-Chlorophenyl phenyl ether	0.39	U	3.92	3.54		mg/Kg	☼	90	62 - 120
4-Methylphenol	0.39	U	3.92	2.94		mg/Kg	☼	75	61 - 120
4-Nitroaniline	0.39	U	3.92	3.31		mg/Kg	☼	85	55 - 120
4-Nitrophenol	0.79	U	7.84	5.75		mg/Kg	☼	73	52 - 123
Acenaphthene	0.39	U	3.92	3.37		mg/Kg	☼	86	49 - 120
Acenaphthylene	0.39	U	3.92	3.20		mg/Kg	☼	82	64 - 120
Acetophenone	0.39	U	3.92	2.87		mg/Kg	☼	73	61 - 120
Anthracene	0.39	U	3.92	3.30		mg/Kg	☼	84	67 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266802-E-4-A MS
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	0.16	U *	1.57	2.97	E *	mg/Kg	☼	189	29 - 150
Benzaldehyde	0.39	U	1.57	1.28	E	mg/Kg	☼	82	34 - 150
Benzo[a]anthracene	0.039	U	3.92	3.48		mg/Kg	☼	89	62 - 120
Benzo[a]pyrene	0.039	U	3.92	3.43		mg/Kg	☼	87	73 - 123
Benzo[b]fluoranthene	0.039	U	3.92	3.72		mg/Kg	☼	95	70 - 125
Benzo[g,h,i]perylene	0.39	U	3.92	3.25		mg/Kg	☼	83	66 - 120
Benzo[k]fluoranthene	0.039	U	3.92	3.80		mg/Kg	☼	97	67 - 122
Bis(2-chloroethoxy)methane	0.39	U	3.92	2.87		mg/Kg	☼	73	62 - 120
Bis(2-chloroethyl)ether	0.039	U	3.92	2.69		mg/Kg	☼	68	60 - 120
Bis(2-ethylhexyl) phthalate	0.39	U	3.92	3.61		mg/Kg	☼	92	59 - 125
Butyl benzyl phthalate	0.39	U	3.92	3.60		mg/Kg	☼	92	62 - 127
Caprolactam	0.39	U *	1.57	2.72	E *	mg/Kg	☼	173	36 - 150
Carbazole	0.39	U	3.92	3.27		mg/Kg	☼	83	64 - 120
Chrysene	0.39	U	3.92	3.29		mg/Kg	☼	84	63 - 120
Dibenz(a,h)anthracene	0.039	U	3.92	3.64		mg/Kg	☼	93	66 - 128
Dibenzofuran	0.39	U	3.92	3.51		mg/Kg	☼	90	61 - 120
Diethyl phthalate	0.39	U	3.92	3.56		mg/Kg	☼	91	63 - 120
Dimethyl phthalate	0.39	U	3.92	3.51		mg/Kg	☼	90	65 - 120
Di-n-butyl phthalate	0.39	U	3.92	3.48		mg/Kg	☼	89	66 - 120
Di-n-octyl phthalate	0.39	U	3.92	3.72		mg/Kg	☼	95	65 - 133
Fluoranthene	0.39	U	3.92	3.33		mg/Kg	☼	85	61 - 120
Fluorene	0.39	U	3.92	3.54		mg/Kg	☼	90	60 - 120
Hexachlorobenzene	0.039	U	3.92	3.06		mg/Kg	☼	78	66 - 120
Hexachlorobutadiene	0.079	U	3.92	3.26		mg/Kg	☼	83	62 - 120
Hexachlorocyclopentadiene	0.39	U	3.92	2.91		mg/Kg	☼	74	38 - 120
Hexachloroethane	0.039	U	3.92	2.76		mg/Kg	☼	70	61 - 120
Indeno[1,2,3-cd]pyrene	0.039	U	3.92	3.41		mg/Kg	☼	87	62 - 130
Isophorone	0.16	U	3.92	3.03		mg/Kg	☼	77	67 - 120
Naphthalene	0.39	U	3.92	3.16		mg/Kg	☼	81	63 - 120
Nitrobenzene	0.039	U	3.92	3.07		mg/Kg	☼	78	63 - 120
N-Nitrosodi-n-propylamine	0.039	U	3.92	2.72		mg/Kg	☼	69	61 - 120
N-Nitrosodiphenylamine	0.39	U	3.92	3.28		mg/Kg	☼	84	63 - 120
Pentachlorophenol	0.31	U	7.84	6.17		mg/Kg	☼	79	37 - 126
Phenanthrene	0.39	U	3.92	3.28		mg/Kg	☼	84	66 - 120
Phenol	0.39	U	3.92	2.97		mg/Kg	☼	76	63 - 120
Pyrene	0.39	U	3.92	3.43		mg/Kg	☼	87	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*10 - 123*
2-Fluorobiphenyl	*104*		*22 - 122*
2-Fluorophenol (Surr)	*89*		*18 - 123*
Nitrobenzene-d5 (Surr)	*92*		*16 - 125*
Phenol-d5 (Surr)	*89*		*23 - 120*
Terphenyl-d14 (Surr)	*109*		*25 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266802-E-4-B MSD
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.39	U	3.92	3.30		mg/Kg	☼	84	59 - 120	0	30
1,2,4,5-Tetrachlorobenzene	0.39	U	3.92	3.40		mg/Kg	☼	87	60 - 120	1	30
1,4-Dioxane	0.039	U	3.92	1.89		mg/Kg	☼	48	21 - 120	1	30
2,2'-oxybis[1-chloropropane]	0.39	U	3.92	2.56		mg/Kg	☼	65	49 - 126	3	30
2,3,4,6-Tetrachlorophenol	0.39	U	3.92	3.75		mg/Kg	☼	96	54 - 120	3	30
2,4,5-Trichlorophenol	0.39	U	3.92	3.58		mg/Kg	☼	91	59 - 120	4	30
2,4,6-Trichlorophenol	0.16	U	3.92	3.56		mg/Kg	☼	91	58 - 120	2	30
2,4-Dichlorophenol	0.16	U	3.92	3.47		mg/Kg	☼	88	66 - 120	2	30
2,4-Dimethylphenol	0.39	U	3.92	3.22		mg/Kg	☼	82	67 - 120	1	30
2,4-Dinitrophenol	0.31	U	7.84	5.09		mg/Kg	☼	65	36 - 129	7	30
2,4-Dinitrotoluene	0.079	U	3.92	3.97		mg/Kg	☼	101	65 - 124	1	30
2,6-Dinitrotoluene	0.079	U	3.92	3.83		mg/Kg	☼	98	67 - 121	0	30
2-Chloronaphthalene	0.39	U	3.92	3.36		mg/Kg	☼	86	60 - 120	0	30
2-Chlorophenol	0.39	U	3.92	2.94		mg/Kg	☼	75	63 - 120	1	30
2-Methylnaphthalene	0.39	U	3.92	2.90		mg/Kg	☼	74	64 - 120	0	30
2-Methylphenol	0.39	U	3.92	2.90		mg/Kg	☼	74	63 - 120	2	30
2-Nitroaniline	0.39	U	3.92	3.28		mg/Kg	☼	84	48 - 120	0	30
2-Nitrophenol	0.39	U	3.92	3.36		mg/Kg	☼	86	64 - 120	0	30
3 & 4 Methylphenol	0.39	U	3.92	2.90		mg/Kg	☼	74	61 - 120	1	30
3,3'-Dichlorobenzidine	0.16	U	3.92	3.55		mg/Kg	☼	91	13 - 136	0	30
3-Nitroaniline	0.39	U	3.92	3.35		mg/Kg	☼	85	39 - 122	1	30
4,6-Dinitro-2-methylphenol	0.31	U	7.84	7.85		mg/Kg	☼	100	50 - 136	8	30
4-Bromophenyl phenyl ether	0.39	U	3.92	3.38		mg/Kg	☼	86	67 - 120	1	30
4-Chloro-3-methylphenol	0.39	U	3.92	3.47		mg/Kg	☼	89	66 - 120	3	30
4-Chloroaniline	0.39	U	3.92	3.01		mg/Kg	☼	77	15 - 128	2	30
4-Chlorophenyl phenyl ether	0.39	U	3.92	3.60		mg/Kg	☼	92	62 - 120	2	30
4-Methylphenol	0.39	U	3.92	2.90		mg/Kg	☼	74	61 - 120	1	30
4-Nitroaniline	0.39	U	3.92	3.34		mg/Kg	☼	85	55 - 120	1	30
4-Nitrophenol	0.79	U	7.84	6.09		mg/Kg	☼	78	52 - 123	6	30
Acenaphthene	0.39	U	3.92	3.40		mg/Kg	☼	87	49 - 120	1	30
Acenaphthylene	0.39	U	3.92	3.26		mg/Kg	☼	83	64 - 120	2	30
Acetophenone	0.39	U	3.92	2.78		mg/Kg	☼	71	61 - 120	3	30
Anthracene	0.39	U	3.92	3.41		mg/Kg	☼	87	67 - 120	3	30
Atrazine	0.16	U *	1.57	3.03	E *	mg/Kg	☼	193	29 - 150	2	30
Benzaldehyde	0.39	U	1.57	1.79	E *	mg/Kg	☼	114	34 - 150	33	30
Benzo[a]anthracene	0.039	U	3.92	3.56		mg/Kg	☼	91	62 - 120	2	30
Benzo[a]pyrene	0.039	U	3.92	3.71		mg/Kg	☼	94	73 - 123	8	30
Benzo[b]fluoranthene	0.039	U	3.92	3.85		mg/Kg	☼	98	70 - 125	3	30
Benzo[g,h,i]perylene	0.39	U	3.92	3.41		mg/Kg	☼	87	66 - 120	5	30
Benzo[k]fluoranthene	0.039	U	3.92	3.90		mg/Kg	☼	99	67 - 122	3	30
Bis(2-chloroethoxy)methane	0.39	U	3.92	2.85		mg/Kg	☼	73	62 - 120	1	30
Bis(2-chloroethyl)ether	0.039	U	3.92	2.57		mg/Kg	☼	65	60 - 120	4	30
Bis(2-ethylhexyl) phthalate	0.39	U	3.92	3.74		mg/Kg	☼	95	59 - 125	4	30
Butyl benzyl phthalate	0.39	U	3.92	3.71		mg/Kg	☼	95	62 - 127	3	30
Caprolactam	0.39	U *	1.57	2.87	E *	mg/Kg	☼	183	36 - 150	5	30
Carbazole	0.39	U	3.92	3.33		mg/Kg	☼	85	64 - 120	2	30
Chrysene	0.39	U	3.92	3.36		mg/Kg	☼	86	63 - 120	2	30
Dibenz(a,h)anthracene	0.039	U	3.92	3.84		mg/Kg	☼	98	66 - 128	5	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266802-E-4-B MSD
Matrix: Solid
Analysis Batch: 870313

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran	0.39	U	3.92	3.56		mg/Kg	☼	91	61 - 120	1	30
Diethyl phthalate	0.39	U	3.92	3.64		mg/Kg	☼	93	63 - 120	2	30
Dimethyl phthalate	0.39	U	3.92	3.55		mg/Kg	☼	90	65 - 120	1	30
Di-n-butyl phthalate	0.39	U	3.92	3.60		mg/Kg	☼	92	66 - 120	3	30
Di-n-octyl phthalate	0.39	U	3.92	3.88		mg/Kg	☼	99	65 - 133	4	30
Fluoranthene	0.39	U	3.92	3.42		mg/Kg	☼	87	61 - 120	3	30
Fluorene	0.39	U	3.92	3.59		mg/Kg	☼	92	60 - 120	1	30
Hexachlorobenzene	0.039	U	3.92	3.15		mg/Kg	☼	80	66 - 120	3	30
Hexachlorobutadiene	0.079	U	3.92	3.28		mg/Kg	☼	84	62 - 120	1	30
Hexachlorocyclopentadiene	0.39	U	3.92	2.88		mg/Kg	☼	73	38 - 120	1	30
Hexachloroethane	0.039	U	3.92	2.66		mg/Kg	☼	68	61 - 120	4	30
Indeno[1,2,3-cd]pyrene	0.039	U	3.92	3.54		mg/Kg	☼	90	62 - 130	4	30
Isophorone	0.16	U	3.92	2.99		mg/Kg	☼	76	67 - 120	1	30
Naphthalene	0.39	U	3.92	3.19		mg/Kg	☼	81	63 - 120	1	30
Nitrobenzene	0.039	U	3.92	2.94		mg/Kg	☼	75	63 - 120	4	30
N-Nitrosodi-n-propylamine	0.039	U	3.92	2.67		mg/Kg	☼	68	61 - 120	2	30
N-Nitrosodiphenylamine	0.39	U	3.92	3.32		mg/Kg	☼	85	63 - 120	1	30
Pentachlorophenol	0.31	U	7.84	6.48		mg/Kg	☼	83	37 - 126	5	30
Phenanthrene	0.39	U	3.92	3.36		mg/Kg	☼	86	66 - 120	2	30
Phenol	0.39	U	3.92	2.97		mg/Kg	☼	76	63 - 120	0	30
Pyrene	0.39	U	3.92	3.48		mg/Kg	☼	89	61 - 121	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*10 - 123*
2-Fluorobiphenyl	*97*		*22 - 122*
2-Fluorophenol (Surr)	*79*		*18 - 123*
Nitrobenzene-d5 (Surr)	*85*		*16 - 125*
Phenol-d5 (Surr)	*80*		*23 - 120*
Terphenyl-d14 (Surr)	*104*		*25 - 126*

Lab Sample ID: MB 460-870659/1-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.010	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
1,4-Dioxane	0.033	U	0.033	0.029	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.034	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.042	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dichlorophenol	0.13	U	0.13	0.021	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dimethylphenol	0.33	U	0.33	0.039	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,4-Dinitrotoluene	0.067	U	0.067	0.036	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2,6-Dinitrotoluene	0.067	U	0.067	0.024	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		10/07/22 10:42	10/08/22 00:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870659/1-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Methylnaphthalene	0.33	U	0.33	0.0093	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Methylphenol	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Nitroaniline	0.33	U	0.33	0.025	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
2-Nitrophenol	0.33	U	0.33	0.033	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
3 & 4 Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
3-Nitroaniline	0.33	U	0.33	0.079	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.14	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.013	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.019	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Chloroaniline	0.33	U	0.33	0.059	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Methylphenol	0.33	U	0.33	0.021	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Nitroaniline	0.33	U	0.33	0.038	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Acenaphthene	0.33	U	0.33	0.0094	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Acenaphthylene	0.33	U	0.33	0.0095	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Acetophenone	0.33	U	0.33	0.016	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Anthracene	0.33	U	0.33	0.010	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Atrazine	0.13	U	0.13	0.019	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzaldehyde	0.33	U	0.33	0.055	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.026	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Caprolactam	0.33	U	0.33	0.051	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Carbazole	0.33	U	0.33	0.013	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Dibenzofuran	0.33	U	0.33	0.011	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Diethyl phthalate	0.33	U	0.33	0.011	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Dimethyl phthalate	0.33	U	0.33	0.075	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Di-n-butyl phthalate	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Fluoranthene	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Fluorene	0.33	U	0.33	0.0097	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachlorobenzene	0.033	U	0.033	0.016	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Hexachloroethane	0.033	U	0.033	0.011	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Isophorone	0.13	U	0.13	0.096	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		10/07/22 10:42	10/08/22 00:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870659/1-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.033	U	0.033	0.018	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.024	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.027	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Phenol	0.33	U	0.33	0.012	mg/Kg		10/07/22 10:42	10/08/22 00:27	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		10/07/22 10:42	10/08/22 00:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 123*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
2-Fluorobiphenyl	*67*		*22 - 122*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
2-Fluorophenol (Surr)	*63*		*18 - 123*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
Nitrobenzene-d5 (Surr)	*62*		*16 - 125*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
Phenol-d5 (Surr)	*62*		*23 - 120*	*10/07/22 10:42*	*10/08/22 00:27*	*1*
Terphenyl-d14 (Surr)	*75*		*25 - 126*	*10/07/22 10:42*	*10/08/22 00:27*	*1*

Lab Sample ID: LCS 460-870659/2-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.78		mg/Kg		83	59 - 120
1,2,4,5-Tetrachlorobenzene	3.33	2.74		mg/Kg		82	60 - 120
1,4-Dioxane	3.33	1.62		mg/Kg		48	21 - 120
2,2'-oxybis[1-chloropropane]	3.33	2.36		mg/Kg		71	49 - 126
2,3,4,6-Tetrachlorophenol	3.33	3.07		mg/Kg		92	54 - 120
2,4,5-Trichlorophenol	3.33	2.93		mg/Kg		88	59 - 120
2,4,6-Trichlorophenol	3.33	2.98		mg/Kg		89	58 - 120
2,4-Dichlorophenol	3.33	2.84		mg/Kg		85	66 - 120
2,4-Dimethylphenol	3.33	2.52		mg/Kg		76	67 - 120
2,4-Dinitrophenol	6.67	6.91		mg/Kg		104	36 - 129
2,4-Dinitrotoluene	3.33	2.92		mg/Kg		87	65 - 124
2,6-Dinitrotoluene	3.33	3.06		mg/Kg		92	67 - 121
2-Chloronaphthalene	3.33	2.79		mg/Kg		84	60 - 120
2-Chlorophenol	3.33	2.47		mg/Kg		74	63 - 120
2-Methylnaphthalene	3.33	2.32		mg/Kg		70	64 - 120
2-Methylphenol	3.33	2.63		mg/Kg		79	63 - 120
2-Nitroaniline	3.33	2.98		mg/Kg		89	48 - 120
2-Nitrophenol	3.33	2.98		mg/Kg		90	64 - 120
3 & 4 Methylphenol	3.33	2.54		mg/Kg		76	61 - 120
3,3'-Dichlorobenzidine	3.33	2.70		mg/Kg		81	13 - 136
3-Nitroaniline	3.33	2.59		mg/Kg		78	39 - 122
4,6-Dinitro-2-methylphenol	6.67	6.16		mg/Kg		92	50 - 136
4-Bromophenyl phenyl ether	3.33	2.87		mg/Kg		86	67 - 120
4-Chloro-3-methylphenol	3.33	2.72		mg/Kg		82	66 - 120
4-Chloroaniline	3.33	1.75		mg/Kg		52	15 - 128
4-Chlorophenyl phenyl ether	3.33	2.83		mg/Kg		85	62 - 120
4-Methylphenol	3.33	2.54		mg/Kg		76	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870659/2-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroaniline	3.33	2.69		mg/Kg		81	55 - 120
4-Nitrophenol	6.67	5.56		mg/Kg		83	52 - 123
Acenaphthene	3.33	2.54		mg/Kg		76	49 - 120
Acenaphthylene	3.33	2.62		mg/Kg		79	64 - 120
Acetophenone	3.33	2.34		mg/Kg		70	61 - 120
Anthracene	3.33	2.78		mg/Kg		83	67 - 120
Atrazine	1.33	1.65		mg/Kg		124	29 - 150
Benzaldehyde	1.33	1.24		mg/Kg		93	34 - 150
Benzo[a]anthracene	3.33	2.96		mg/Kg		89	62 - 120
Benzo[a]pyrene	3.33	2.89		mg/Kg		87	73 - 123
Benzo[b]fluoranthene	3.33	3.27		mg/Kg		98	70 - 125
Benzo[g,h,i]perylene	3.33	2.62		mg/Kg		79	66 - 120
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		95	67 - 122
Bis(2-chloroethoxy)methane	3.33	2.58		mg/Kg		77	62 - 120
Bis(2-chloroethyl)ether	3.33	2.42		mg/Kg		73	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.18		mg/Kg		95	59 - 125
Butyl benzyl phthalate	3.33	3.23		mg/Kg		97	62 - 127
Caprolactam	1.33	1.40		mg/Kg		105	36 - 150
Carbazole	3.33	2.80		mg/Kg		84	64 - 120
Chrysene	3.33	2.85		mg/Kg		85	63 - 120
Dibenz(a,h)anthracene	3.33	2.68		mg/Kg		80	66 - 128
Dibenzofuran	3.33	2.82		mg/Kg		85	61 - 120
Diethyl phthalate	3.33	2.89		mg/Kg		87	63 - 120
Dimethyl phthalate	3.33	2.84		mg/Kg		85	65 - 120
Di-n-butyl phthalate	3.33	3.04		mg/Kg		91	66 - 120
Di-n-octyl phthalate	3.33	3.40		mg/Kg		102	65 - 133
Fluoranthene	3.33	2.75		mg/Kg		82	61 - 120
Fluorene	3.33	2.83		mg/Kg		85	60 - 120
Hexachlorobenzene	3.33	2.86		mg/Kg		86	66 - 120
Hexachlorobutadiene	3.33	2.59		mg/Kg		78	62 - 120
Hexachlorocyclopentadiene	3.33	2.75		mg/Kg		82	38 - 120
Hexachloroethane	3.33	2.48		mg/Kg		75	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.09		mg/Kg		93	62 - 130
Isophorone	3.33	2.58		mg/Kg		77	67 - 120
Naphthalene	3.33	2.56		mg/Kg		77	63 - 120
Nitrobenzene	3.33	2.34		mg/Kg		70	63 - 120
N-Nitrosodi-n-propylamine	3.33	2.55		mg/Kg		76	61 - 120
N-Nitrosodiphenylamine	3.33	2.76		mg/Kg		83	63 - 120
Pentachlorophenol	6.67	5.68		mg/Kg		85	37 - 126
Phenanthrene	3.33	2.80		mg/Kg		84	66 - 120
Phenol	3.33	2.44		mg/Kg		73	63 - 120
Pyrene	3.33	3.07		mg/Kg		92	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*117*		*10 - 123*
2-Fluorobiphenyl	*100*		*22 - 122*
2-Fluorophenol (Surr)	*91*		*18 - 123*
Nitrobenzene-d5 (Surr)	*92*		*16 - 125*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870659/2-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870659

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5 (Surr)	93		23 - 120
Terphenyl-d14 (Surr)	112		25 - 126

Lab Sample ID: LCSD 460-870659/3-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870659

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	2.86		mg/Kg		86	59 - 120	3	30
1,2,4,5-Tetrachlorobenzene			3.33	2.79		mg/Kg		84	60 - 120	2	30
1,4-Dioxane			3.33	1.68		mg/Kg		50	21 - 120	4	30
2,2'-oxybis[1-chloropropane]			3.33	2.32		mg/Kg		70	49 - 126	2	30
2,3,4,6-Tetrachlorophenol			3.33	3.08		mg/Kg		93	54 - 120	0	30
2,4,5-Trichlorophenol			3.33	2.97		mg/Kg		89	59 - 120	1	30
2,4,6-Trichlorophenol			3.33	2.99		mg/Kg		90	58 - 120	0	30
2,4-Dichlorophenol			3.33	2.84		mg/Kg		85	66 - 120	0	30
2,4-Dimethylphenol			3.33	2.52		mg/Kg		76	67 - 120	0	30
2,4-Dinitrophenol			6.67	6.98		mg/Kg		105	36 - 129	1	30
2,4-Dinitrotoluene			3.33	2.92		mg/Kg		88	65 - 124	0	30
2,6-Dinitrotoluene			3.33	3.07		mg/Kg		92	67 - 121	0	30
2-Chloronaphthalene			3.33	2.85		mg/Kg		85	60 - 120	2	30
2-Chlorophenol			3.33	2.53		mg/Kg		76	63 - 120	2	30
2-Methylnaphthalene			3.33	2.32		mg/Kg		70	64 - 120	0	30
2-Methylphenol			3.33	2.59		mg/Kg		78	63 - 120	1	30
2-Nitroaniline			3.33	2.97		mg/Kg		89	48 - 120	0	30
2-Nitrophenol			3.33	3.01		mg/Kg		90	64 - 120	1	30
3 & 4 Methylphenol			3.33	2.57		mg/Kg		77	61 - 120	1	30
3,3'-Dichlorobenzidine			3.33	2.66		mg/Kg		80	13 - 136	1	30
3-Nitroaniline			3.33	2.63		mg/Kg		79	39 - 122	1	30
4,6-Dinitro-2-methylphenol			6.67	6.18		mg/Kg		93	50 - 136	0	30
4-Bromophenyl phenyl ether			3.33	2.91		mg/Kg		87	67 - 120	1	30
4-Chloro-3-methylphenol			3.33	2.77		mg/Kg		83	66 - 120	1	30
4-Chloroaniline			3.33	1.74		mg/Kg		52	15 - 128	1	30
4-Chlorophenyl phenyl ether			3.33	2.86		mg/Kg		86	62 - 120	1	30
4-Methylphenol			3.33	2.57		mg/Kg		77	61 - 120	1	30
4-Nitroaniline			3.33	2.65		mg/Kg		80	55 - 120	1	30
4-Nitrophenol			6.67	5.55		mg/Kg		83	52 - 123	0	30
Acenaphthene			3.33	2.61		mg/Kg		78	49 - 120	3	30
Acenaphthylene			3.33	2.66		mg/Kg		80	64 - 120	2	30
Acetophenone			3.33	2.34		mg/Kg		70	61 - 120	0	30
Anthracene			3.33	2.81		mg/Kg		84	67 - 120	1	30
Atrazine			1.33	1.66		mg/Kg		124	29 - 150	0	30
Benzaldehyde			1.33	1.21		mg/Kg		91	34 - 150	2	30
Benzo[a]anthracene			3.33	2.98		mg/Kg		89	62 - 120	1	30
Benzo[a]pyrene			3.33	2.87		mg/Kg		86	73 - 123	1	30
Benzo[b]fluoranthene			3.33	3.21		mg/Kg		96	70 - 125	2	30
Benzo[g,h,i]perylene			3.33	2.59		mg/Kg		78	66 - 120	1	30
Benzo[k]fluoranthene			3.33	3.21		mg/Kg		96	67 - 122	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870659/3-A
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870659

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane			3.33	2.55		mg/Kg		76	62 - 120	1	30
Bis(2-chloroethyl)ether			3.33	2.43		mg/Kg		73	60 - 120	0	30
Bis(2-ethylhexyl) phthalate			3.33	3.19		mg/Kg		96	59 - 125	0	30
Butyl benzyl phthalate			3.33	3.26		mg/Kg		98	62 - 127	1	30
Caprolactam			1.33	1.36		mg/Kg		102	36 - 150	3	30
Carbazole			3.33	2.79		mg/Kg		84	64 - 120	0	30
Chrysene			3.33	2.82		mg/Kg		85	63 - 120	1	30
Dibenz(a,h)anthracene			3.33	2.64		mg/Kg		79	66 - 128	1	30
Dibenzofuran			3.33	2.86		mg/Kg		86	61 - 120	1	30
Diethyl phthalate			3.33	2.87		mg/Kg		86	63 - 120	1	30
Dimethyl phthalate			3.33	2.86		mg/Kg		86	65 - 120	1	30
Di-n-butyl phthalate			3.33	3.01		mg/Kg		90	66 - 120	1	30
Di-n-octyl phthalate			3.33	3.40		mg/Kg		102	65 - 133	0	30
Fluoranthene			3.33	2.73		mg/Kg		82	61 - 120	1	30
Fluorene			3.33	2.88		mg/Kg		86	60 - 120	2	30
Hexachlorobenzene			3.33	2.90		mg/Kg		87	66 - 120	1	30
Hexachlorobutadiene			3.33	2.56		mg/Kg		77	62 - 120	1	30
Hexachlorocyclopentadiene			3.33	2.80		mg/Kg		84	38 - 120	2	30
Hexachloroethane			3.33	2.48		mg/Kg		74	61 - 120	0	30
Indeno[1,2,3-cd]pyrene			3.33	3.03		mg/Kg		91	62 - 130	2	30
Isophorone			3.33	2.60		mg/Kg		78	67 - 120	1	30
Naphthalene			3.33	2.56		mg/Kg		77	63 - 120	0	30
Nitrobenzene			3.33	2.36		mg/Kg		71	63 - 120	1	30
N-Nitrosodi-n-propylamine			3.33	2.57		mg/Kg		77	61 - 120	1	30
N-Nitrosodiphenylamine			3.33	2.80		mg/Kg		84	63 - 120	1	30
Pentachlorophenol			6.67	5.62		mg/Kg		84	37 - 126	1	30
Phenanthrene			3.33	2.79		mg/Kg		84	66 - 120	0	30
Phenol			3.33	2.51		mg/Kg		75	63 - 120	3	30
Pyrene			3.33	3.07		mg/Kg		92	61 - 121	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*119*		*10 - 123*
2-Fluorobiphenyl	*101*		*22 - 122*
2-Fluorophenol (Surr)	*91*		*18 - 123*
Nitrobenzene-d5 (Surr)	*91*		*16 - 125*
Phenol-d5 (Surr)	*94*		*23 - 120*
Terphenyl-d14 (Surr)	*115*		*25 - 126*

Lab Sample ID: 460-266324-F-1-A MS
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.37	U	3.75	1.81	*	mg/Kg	☼	48	59 - 120
1,2,4,5-Tetrachlorobenzene	0.37	U	3.75	1.81	*	mg/Kg	☼	48	60 - 120
1,4-Dioxane	0.037	U	3.75	1.10		mg/Kg	☼	29	21 - 120
2,2'-oxybis[1-chloropropane]	0.37	U	3.75	1.66	*	mg/Kg	☼	44	49 - 126
2,3,4,6-Tetrachlorophenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	54 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-A MS
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	0.37	U	3.75	1.83	*	mg/Kg	☼	49	59 - 120
2,4,6-Trichlorophenol	0.15	U	3.75	1.90	*	mg/Kg	☼	51	58 - 120
2,4-Dichlorophenol	0.15	U	3.75	1.85	*	mg/Kg	☼	49	66 - 120
2,4-Dimethylphenol	0.37	U	3.75	1.69	*	mg/Kg	☼	45	67 - 120
2,4-Dinitrophenol	0.30	U	7.50	1.98	*	mg/Kg	☼	26	36 - 129
2,4-Dinitrotoluene	0.075	U	3.75	1.83	*	mg/Kg	☼	49	65 - 124
2,6-Dinitrotoluene	0.075	U	3.75	1.92	*	mg/Kg	☼	51	67 - 121
2-Chloronaphthalene	0.37	U	3.75	1.79	*	mg/Kg	☼	48	60 - 120
2-Chlorophenol	0.37	U	3.75	1.75	*	mg/Kg	☼	47	63 - 120
2-Methylnaphthalene	0.099	J	3.75	1.66	*	mg/Kg	☼	42	64 - 120
2-Methylphenol	0.37	U	3.75	1.77	*	mg/Kg	☼	47	63 - 120
2-Nitroaniline	0.37	U	3.75	1.88		mg/Kg	☼	50	48 - 120
2-Nitrophenol	0.37	U	3.75	2.02	*	mg/Kg	☼	54	64 - 120
3 & 4 Methylphenol	0.37	U	3.75	1.76	*	mg/Kg	☼	47	61 - 120
3,3'-Dichlorobenzidine	0.15	U	3.75	1.64		mg/Kg	☼	44	13 - 136
3-Nitroaniline	0.37	U	3.75	1.61		mg/Kg	☼	43	39 - 122
4,6-Dinitro-2-methylphenol	0.30	U	7.50	2.71	*	mg/Kg	☼	36	50 - 136
4-Bromophenyl phenyl ether	0.37	U	3.75	1.80	*	mg/Kg	☼	48	67 - 120
4-Chloro-3-methylphenol	0.37	U	3.75	1.78	*	mg/Kg	☼	47	66 - 120
4-Chloroaniline	0.37	U	3.75	1.46		mg/Kg	☼	39	15 - 128
4-Chlorophenyl phenyl ether	0.37	U	3.75	1.82	*	mg/Kg	☼	48	62 - 120
4-Methylphenol	0.37	U	3.75	1.76	*	mg/Kg	☼	47	61 - 120
4-Nitroaniline	0.37	U	3.75	1.55	*	mg/Kg	☼	41	55 - 120
4-Nitrophenol	0.75	U	7.50	3.53	*	mg/Kg	☼	47	52 - 123
Acenaphthene	0.37	U	3.75	1.58	*	mg/Kg	☼	42	49 - 120
Acenaphthylene	0.37	U	3.75	1.67	*	mg/Kg	☼	45	64 - 120
Acetophenone	0.37	U	3.75	1.67	*	mg/Kg	☼	44	61 - 120
Anthracene	0.20	J	3.75	1.98	*	mg/Kg	☼	47	67 - 120
Atrazine	0.15	U	1.50	1.18		mg/Kg	☼	78	29 - 150
Benzaldehyde	0.37	U	1.50	0.973		mg/Kg	☼	65	34 - 150
Benzo[a]anthracene	0.023	J	3.75	1.91	*	mg/Kg	☼	50	62 - 120
Benzo[a]pyrene	0.037	U	3.75	1.84	*	mg/Kg	☼	49	73 - 123
Benzo[b]fluoranthene	0.037	U	3.75	2.07	*	mg/Kg	☼	55	70 - 125
Benzo[g,h,i]perylene	0.37	U	3.75	1.79	*	mg/Kg	☼	48	66 - 120
Benzo[k]fluoranthene	0.037	U	3.75	1.95	*	mg/Kg	☼	52	67 - 122
Bis(2-chloroethoxy)methane	0.37	U	3.75	1.70	*	mg/Kg	☼	45	62 - 120
Bis(2-chloroethyl)ether	0.037	U	3.75	1.72	*	mg/Kg	☼	46	60 - 120
Bis(2-ethylhexyl) phthalate	0.37	U	3.75	2.14	*	mg/Kg	☼	57	59 - 125
Butyl benzyl phthalate	0.37	U	3.75	2.15	*	mg/Kg	☼	57	62 - 127
Caprolactam	0.37	U	1.50	1.06		mg/Kg	☼	70	36 - 150
Carbazole	0.075	J	3.75	1.80	*	mg/Kg	☼	46	64 - 120
Chrysene	0.017	J	3.75	1.83	*	mg/Kg	☼	48	63 - 120
Dibenz(a,h)anthracene	0.037	U	3.75	1.78	*	mg/Kg	☼	48	66 - 128
Dibenzofuran	0.013	J	3.75	1.82	*	mg/Kg	☼	48	61 - 120
Diethyl phthalate	0.37	U	3.75	1.82	*	mg/Kg	☼	49	63 - 120
Dimethyl phthalate	0.37	U	3.75	1.81	*	mg/Kg	☼	48	65 - 120
Di-n-butyl phthalate	0.37	U	3.75	1.88	*	mg/Kg	☼	50	66 - 120
Di-n-octyl phthalate	0.37	U	3.75	2.29	*	mg/Kg	☼	61	65 - 133
Fluoranthene	0.041	J	3.75	1.73	*	mg/Kg	☼	45	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-A MS
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	0.031	J	3.75	1.84	*	mg/Kg	☼	48	60 - 120
Hexachlorobenzene	0.037	U	3.75	1.82	*	mg/Kg	☼	48	66 - 120
Hexachlorobutadiene	0.075	U	3.75	1.77	*	mg/Kg	☼	47	62 - 120
Hexachlorocyclopentadiene	0.37	U	3.75	1.66		mg/Kg	☼	44	38 - 120
Hexachloroethane	0.037	U	3.75	1.80	*	mg/Kg	☼	48	61 - 120
Indeno[1,2,3-cd]pyrene	0.037	U	3.75	2.03	*	mg/Kg	☼	54	62 - 130
Isophorone	0.15	U	3.75	1.74	*	mg/Kg	☼	46	67 - 120
Naphthalene	0.096	J	3.75	1.80	*	mg/Kg	☼	46	63 - 120
Nitrobenzene	0.037	U	3.75	1.66	*	mg/Kg	☼	44	63 - 120
N-Nitrosodi-n-propylamine	0.037	U	3.75	1.77	*	mg/Kg	☼	47	61 - 120
N-Nitrosodiphenylamine	0.37	U	3.75	1.78	*	mg/Kg	☼	47	63 - 120
Pentachlorophenol	0.30	U	7.50	3.15		mg/Kg	☼	42	37 - 126
Phenanthrene	0.088	J	3.75	1.80	*	mg/Kg	☼	46	66 - 120
Phenol	0.37	U	3.75	1.72	*	mg/Kg	☼	46	63 - 120
Pyrene	0.042	J	3.75	2.06	*	mg/Kg	☼	54	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 123*
2-Fluorobiphenyl	*55*		*22 - 122*
2-Fluorophenol (Surr)	*55*		*18 - 123*
Nitrobenzene-d5 (Surr)	*53*		*16 - 125*
Phenol-d5 (Surr)	*55*		*23 - 120*
Terphenyl-d14 (Surr)	*66*		*25 - 126*

Lab Sample ID: 460-266324-F-1-B MSD
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.37	U	3.75	2.00	*	mg/Kg	☼	53	59 - 120	10	30
1,2,4,5-Tetrachlorobenzene	0.37	U	3.75	1.97	*	mg/Kg	☼	52	60 - 120	8	30
1,4-Dioxane	0.037	U	3.75	1.15		mg/Kg	☼	31	21 - 120	5	30
2,2'-oxybis[1-chloropropane]	0.37	U	3.75	1.80	*	mg/Kg	☼	48	49 - 126	8	30
2,3,4,6-Tetrachlorophenol	0.37	U	3.75	2.13		mg/Kg	☼	57	54 - 120	12	30
2,4,5-Trichlorophenol	0.37	U	3.75	2.00	*	mg/Kg	☼	53	59 - 120	9	30
2,4,6-Trichlorophenol	0.15	U	3.75	2.08	*	mg/Kg	☼	55	58 - 120	9	30
2,4-Dichlorophenol	0.15	U	3.75	2.02	*	mg/Kg	☼	54	66 - 120	9	30
2,4-Dimethylphenol	0.37	U	3.75	1.81	*	mg/Kg	☼	48	67 - 120	7	30
2,4-Dinitrophenol	0.30	U	7.50	2.58	*	mg/Kg	☼	34	36 - 129	27	30
2,4-Dinitrotoluene	0.075	U	3.75	2.02	*	mg/Kg	☼	54	65 - 124	9	30
2,6-Dinitrotoluene	0.075	U	3.75	2.09	*	mg/Kg	☼	56	67 - 121	8	30
2-Chloronaphthalene	0.37	U	3.75	1.97	*	mg/Kg	☼	53	60 - 120	10	30
2-Chlorophenol	0.37	U	3.75	1.87	*	mg/Kg	☼	50	63 - 120	7	30
2-Methylnaphthalene	0.099	J	3.75	1.82	*	mg/Kg	☼	46	64 - 120	9	30
2-Methylphenol	0.37	U	3.75	1.94	*	mg/Kg	☼	52	63 - 120	9	30
2-Nitroaniline	0.37	U	3.75	2.03		mg/Kg	☼	54	48 - 120	7	30
2-Nitrophenol	0.37	U	3.75	2.13	*	mg/Kg	☼	57	64 - 120	6	30
3 & 4 Methylphenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	61 - 120	7	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-B MSD
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	0.15	U	3.75	1.67		mg/Kg	☼	45	13 - 136	2	30
3-Nitroaniline	0.37	U	3.75	1.71		mg/Kg	☼	46	39 - 122	6	30
4,6-Dinitro-2-methylphenol	0.30	U	7.50	3.16	*	mg/Kg	☼	42	50 - 136	15	30
4-Bromophenyl phenyl ether	0.37	U	3.75	1.97	*	mg/Kg	☼	53	67 - 120	9	30
4-Chloro-3-methylphenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	66 - 120	6	30
4-Chloroaniline	0.37	U	3.75	1.50		mg/Kg	☼	40	15 - 128	3	30
4-Chlorophenyl phenyl ether	0.37	U	3.75	2.00	*	mg/Kg	☼	53	62 - 120	10	30
4-Methylphenol	0.37	U	3.75	1.89	*	mg/Kg	☼	50	61 - 120	7	30
4-Nitroaniline	0.37	U	3.75	1.65	*	mg/Kg	☼	44	55 - 120	6	30
4-Nitrophenol	0.75	U	7.50	3.89		mg/Kg	☼	52	52 - 123	10	30
Acenaphthene	0.37	U	3.75	1.75	*	mg/Kg	☼	47	49 - 120	10	30
Acenaphthylene	0.37	U	3.75	1.83	*	mg/Kg	☼	49	64 - 120	9	30
Acetophenone	0.37	U	3.75	1.80	*	mg/Kg	☼	48	61 - 120	8	30
Anthracene	0.20	J	3.75	2.11	*	mg/Kg	☼	51	67 - 120	6	30
Atrazine	0.15	U	1.50	1.27		mg/Kg	☼	85	29 - 150	8	30
Benzaldehyde	0.37	U	1.50	1.07		mg/Kg	☼	72	34 - 150	10	30
Benzo[a]anthracene	0.023	J	3.75	2.01	*	mg/Kg	☼	53	62 - 120	5	30
Benzo[a]pyrene	0.037	U	3.75	1.94	*	mg/Kg	☼	52	73 - 123	6	30
Benzo[b]fluoranthene	0.037	U	3.75	2.23	*	mg/Kg	☼	59	70 - 125	8	30
Benzo[g,h,i]perylene	0.37	U	3.75	1.93	*	mg/Kg	☼	52	66 - 120	8	30
Benzo[k]fluoranthene	0.037	U	3.75	2.10	*	mg/Kg	☼	56	67 - 122	8	30
Bis(2-chloroethoxy)methane	0.37	U	3.75	1.86	*	mg/Kg	☼	50	62 - 120	9	30
Bis(2-chloroethyl)ether	0.037	U	3.75	1.82	*	mg/Kg	☼	49	60 - 120	6	30
Bis(2-ethylhexyl) phthalate	0.37	U	3.75	2.22		mg/Kg	☼	59	59 - 125	4	30
Butyl benzyl phthalate	0.37	U	3.75	2.27	*	mg/Kg	☼	60	62 - 127	5	30
Caprolactam	0.37	U	1.50	1.04		mg/Kg	☼	69	36 - 150	1	30
Carbazole	0.075	J	3.75	1.94	*	mg/Kg	☼	50	64 - 120	7	30
Chrysene	0.017	J	3.75	1.90	*	mg/Kg	☼	50	63 - 120	4	30
Dibenz(a,h)anthracene	0.037	U	3.75	1.95	*	mg/Kg	☼	52	66 - 128	9	30
Dibenzofuran	0.013	J	3.75	2.00	*	mg/Kg	☼	53	61 - 120	9	30
Diethyl phthalate	0.37	U	3.75	1.99	*	mg/Kg	☼	53	63 - 120	9	30
Dimethyl phthalate	0.37	U	3.75	1.95	*	mg/Kg	☼	52	65 - 120	7	30
Di-n-butyl phthalate	0.37	U	3.75	2.01	*	mg/Kg	☼	54	66 - 120	7	30
Di-n-octyl phthalate	0.37	U	3.75	2.42		mg/Kg	☼	65	65 - 133	5	30
Fluoranthene	0.041	J	3.75	1.86	*	mg/Kg	☼	48	61 - 120	7	30
Fluorene	0.031	J	3.75	2.00	*	mg/Kg	☼	52	60 - 120	9	30
Hexachlorobenzene	0.037	U	3.75	1.97	*	mg/Kg	☼	53	66 - 120	8	30
Hexachlorobutadiene	0.075	U	3.75	1.91	*	mg/Kg	☼	51	62 - 120	8	30
Hexachlorocyclopentadiene	0.37	U	3.75	1.90		mg/Kg	☼	51	38 - 120	13	30
Hexachloroethane	0.037	U	3.75	1.91	*	mg/Kg	☼	51	61 - 120	6	30
Indeno[1,2,3-cd]pyrene	0.037	U	3.75	2.19	*	mg/Kg	☼	58	62 - 130	8	30
Isophorone	0.15	U	3.75	1.86	*	mg/Kg	☼	50	67 - 120	7	30
Naphthalene	0.096	J	3.75	1.99	*	mg/Kg	☼	50	63 - 120	10	30
Nitrobenzene	0.037	U	3.75	1.76	*	mg/Kg	☼	47	63 - 120	6	30
N-Nitrosodi-n-propylamine	0.037	U	3.75	1.94	*	mg/Kg	☼	52	61 - 120	9	30
N-Nitrosodiphenylamine	0.37	U	3.75	1.94	*	mg/Kg	☼	52	63 - 120	8	30
Pentachlorophenol	0.30	U	7.50	3.52		mg/Kg	☼	47	37 - 126	11	30
Phenanthrene	0.088	J	3.75	1.98	*	mg/Kg	☼	50	66 - 120	10	30
Phenol	0.37	U	3.75	1.81	*	mg/Kg	☼	48	63 - 120	5	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-266324-F-1-B MSD
Matrix: Solid
Analysis Batch: 870755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	0.042	J	3.75	2.18	*	mg/Kg	☼	57	61 - 121	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 123*
2-Fluorobiphenyl	*60*		*22 - 122*
2-Fluorophenol (Surr)	*59*		*18 - 123*
Nitrobenzene-d5 (Surr)	*57*		*16 - 125*
Phenol-d5 (Surr)	*59*		*23 - 120*
Terphenyl-d14 (Surr)	*70*		*25 - 126*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-870105/1-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/04/22 16:51	10/05/22 04:25	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870105/1-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/04/22 16:51	10/05/22 04:25	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/04/22 16:51	10/05/22 04:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*43 - 150*	*10/04/22 16:51*	*10/05/22 04:25*	*1*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/04/22 16:51*	*10/05/22 04:25*	*1*
Tetrachloro-m-xylene	*83*		*26 - 137*	*10/04/22 16:51*	*10/05/22 04:25*	*1*
Tetrachloro-m-xylene	*77*		*26 - 137*	*10/04/22 16:51*	*10/05/22 04:25*	*1*

Lab Sample ID: LCS 460-870105/2-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.112		mg/Kg		84	64 - 132
4,4'-DDD	0.133	0.110		mg/Kg		82	64 - 132
4,4'-DDE	0.133	0.114		mg/Kg		86	71 - 137
4,4'-DDE	0.133	0.112		mg/Kg		84	71 - 137
4,4'-DDT	0.133	0.110		mg/Kg		83	55 - 138
4,4'-DDT	0.133	0.108		mg/Kg		81	55 - 138
Aldrin	0.133	0.123		mg/Kg		92	67 - 130
Aldrin	0.133	0.120		mg/Kg		90	67 - 130
alpha-BHC	0.133	0.123		mg/Kg		93	72 - 132
alpha-BHC	0.133	0.128		mg/Kg		96	72 - 132
beta-BHC	0.133	0.135		mg/Kg		101	71 - 137
beta-BHC	0.133	0.114		mg/Kg		85	71 - 137
cis-Chlordane	0.133	0.114		mg/Kg		85	63 - 136
cis-Chlordane	0.133	0.113		mg/Kg		84	63 - 136
delta-BHC	0.133	0.126		mg/Kg		94	61 - 143
delta-BHC	0.133	0.132		mg/Kg		99	61 - 143
Dieldrin	0.133	0.113		mg/Kg		84	66 - 135
Dieldrin	0.133	0.113		mg/Kg		85	66 - 135
Endosulfan I	0.133	0.113		mg/Kg		85	64 - 135
Endosulfan I	0.133	0.108		mg/Kg		81	64 - 135
Endosulfan II	0.133	0.113		mg/Kg		85	64 - 130
Endosulfan II	0.133	0.110		mg/Kg		83	64 - 130
Endosulfan sulfate	0.133	0.109		mg/Kg		82	61 - 134
Endosulfan sulfate	0.133	0.107		mg/Kg		80	61 - 134
Endrin	0.133	0.113		mg/Kg		84	63 - 136
Endrin	0.133	0.109		mg/Kg		82	63 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870105/2-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin aldehyde			0.133	0.109		mg/Kg		82	60 - 132		
Endrin aldehyde			0.133	0.101		mg/Kg		76	60 - 132		
Endrin ketone			0.133	0.120		mg/Kg		90	48 - 150		
Endrin ketone			0.133	0.115		mg/Kg		86	48 - 150		
gamma-BHC (Lindane)			0.133	0.130		mg/Kg		97	70 - 134		
gamma-BHC (Lindane)			0.133	0.129		mg/Kg		97	70 - 134		
Heptachlor			0.133	0.119		mg/Kg		89	62 - 134		
Heptachlor			0.133	0.116		mg/Kg		87	62 - 134		
Heptachlor epoxide			0.133	0.114		mg/Kg		86	65 - 127		
Heptachlor epoxide			0.133	0.112		mg/Kg		84	65 - 127		
Methoxychlor			0.133	0.104		mg/Kg		78	49 - 128		
Methoxychlor			0.133	0.0933		mg/Kg		70	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*43 - 150*
DCB Decachlorobiphenyl	*63*		*43 - 150*
Tetrachloro-m-xylene	*75*		*26 - 137*
Tetrachloro-m-xylene	*70*		*26 - 137*

Lab Sample ID: LCSD 460-870105/3-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.118		mg/Kg		89	64 - 132	6	30
4,4'-DDD			0.133	0.114		mg/Kg		85	64 - 132	3	30
4,4'-DDE			0.133	0.121		mg/Kg		91	71 - 137	6	30
4,4'-DDE			0.133	0.114		mg/Kg		86	71 - 137	2	30
4,4'-DDT			0.133	0.119		mg/Kg		89	55 - 138	8	30
4,4'-DDT			0.133	0.115		mg/Kg		87	55 - 138	6	30
Aldrin			0.133	0.129		mg/Kg		97	67 - 130	5	30
Aldrin			0.133	0.127		mg/Kg		95	67 - 130	6	30
alpha-BHC			0.133	0.128		mg/Kg		96	72 - 132	4	30
alpha-BHC			0.133	0.135		mg/Kg		101	72 - 132	5	30
beta-BHC			0.133	0.139		mg/Kg		104	71 - 137	3	30
beta-BHC			0.133	0.116		mg/Kg		87	71 - 137	2	30
cis-Chlordane			0.133	0.120		mg/Kg		90	63 - 136	6	30
cis-Chlordane			0.133	0.113		mg/Kg		85	63 - 136	1	30
delta-BHC			0.133	0.133		mg/Kg		100	61 - 143	6	30
delta-BHC			0.133	0.137		mg/Kg		103	61 - 143	3	30
Dieldrin			0.133	0.118		mg/Kg		88	66 - 135	5	30
Dieldrin			0.133	0.116		mg/Kg		87	66 - 135	3	30
Endosulfan I			0.133	0.119		mg/Kg		89	64 - 135	5	30
Endosulfan I			0.133	0.110		mg/Kg		82	64 - 135	2	30
Endosulfan II			0.133	0.119		mg/Kg		89	64 - 130	5	30
Endosulfan II			0.133	0.114		mg/Kg		85	64 - 130	3	30
Endosulfan sulfate			0.133	0.114		mg/Kg		85	61 - 134	4	30
Endosulfan sulfate			0.133	0.111		mg/Kg		83	61 - 134	4	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870105/3-A
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.133	0.117		mg/Kg		88	63 - 136	4	30
Endrin			0.133	0.112		mg/Kg		84	63 - 136	3	30
Endrin aldehyde			0.133	0.114		mg/Kg		86	60 - 132	5	30
Endrin aldehyde			0.133	0.103		mg/Kg		78	60 - 132	2	30
Endrin ketone			0.133	0.124		mg/Kg		93	48 - 150	3	30
Endrin ketone			0.133	0.118		mg/Kg		88	48 - 150	2	30
gamma-BHC (Lindane)			0.133	0.135		mg/Kg		101	70 - 134	4	30
gamma-BHC (Lindane)			0.133	0.133		mg/Kg		100	70 - 134	3	30
Heptachlor			0.133	0.125		mg/Kg		94	62 - 134	5	30
Heptachlor			0.133	0.122		mg/Kg		92	62 - 134	5	30
Heptachlor epoxide			0.133	0.120		mg/Kg		90	65 - 127	5	30
Heptachlor epoxide			0.133	0.114		mg/Kg		86	65 - 127	2	30
Methoxychlor			0.133	0.110		mg/Kg		83	49 - 128	6	30
Methoxychlor			0.133	0.0999		mg/Kg		75	49 - 128	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*43 - 150*
DCB Decachlorobiphenyl	*61*		*43 - 150*
Tetrachloro-m-xylene	*77*		*26 - 137*
Tetrachloro-m-xylene	*74*		*26 - 137*

Lab Sample ID: 460-266735-E-8-F MS
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0068	U	0.136	0.108		mg/Kg	☼	79	64 - 132
4,4'-DDD	0.0068	U	0.136	0.111		mg/Kg	☼	81	64 - 132
4,4'-DDE	0.0068	U	0.136	0.109		mg/Kg	☼	80	71 - 137
4,4'-DDE	0.0068	U	0.136	0.108		mg/Kg	☼	79	71 - 137
4,4'-DDT	0.0021	J	0.136	0.112		mg/Kg	☼	81	55 - 138
4,4'-DDT	0.0024	J	0.136	0.117		mg/Kg	☼	84	55 - 138
Aldrin	0.0068	U	0.136	0.119		mg/Kg	☼	87	67 - 130
Aldrin	0.0068	U	0.136	0.117		mg/Kg	☼	86	67 - 130
alpha-BHC	0.0020	U	0.136	0.120		mg/Kg	☼	88	72 - 132
alpha-BHC	0.0020	U	0.136	0.128		mg/Kg	☼	94	72 - 132
beta-BHC	0.0020	U	0.136	0.128		mg/Kg	☼	94	71 - 137
beta-BHC	0.0020	U	0.136	0.108		mg/Kg	☼	80	71 - 137
cis-Chlordane	0.0068	U	0.136	0.111		mg/Kg	☼	81	63 - 136
cis-Chlordane	0.0068	U	0.136	0.108		mg/Kg	☼	79	63 - 136
delta-BHC	0.0020	U	0.136	0.124		mg/Kg	☼	91	61 - 143
delta-BHC	0.0020	U	0.136	0.129		mg/Kg	☼	95	61 - 143
Dieldrin	0.0020	U	0.136	0.108		mg/Kg	☼	80	66 - 135
Dieldrin	0.0020	U	0.136	0.113		mg/Kg	☼	83	66 - 135
Endosulfan I	0.0068	U	0.136	0.109		mg/Kg	☼	80	64 - 135
Endosulfan I	0.0068	U	0.136	0.107		mg/Kg	☼	78	64 - 135
Endosulfan II	0.0068	U	0.136	0.110		mg/Kg	☼	81	64 - 130
Endosulfan II	0.0068	U	0.136	0.111		mg/Kg	☼	81	64 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266735-E-8-F MS
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan sulfate	0.0068	U	0.136	0.107		mg/Kg	☼	79	61 - 134
Endosulfan sulfate	0.0068	U	0.136	0.109		mg/Kg	☼	80	61 - 134
Endrin	0.0068	U	0.136	0.109		mg/Kg	☼	80	63 - 136
Endrin	0.0068	U	0.136	0.111		mg/Kg	☼	81	63 - 136
Endrin aldehyde	0.0068	U	0.136	0.106		mg/Kg	☼	78	60 - 132
Endrin aldehyde	0.0068	U	0.136	0.0997		mg/Kg	☼	73	60 - 132
Endrin ketone	0.0068	U	0.136	0.118		mg/Kg	☼	86	48 - 150
Endrin ketone	0.0068	U	0.136	0.117		mg/Kg	☼	86	48 - 150
gamma-BHC (Lindane)	0.0020	U	0.136	0.126		mg/Kg	☼	92	70 - 134
gamma-BHC (Lindane)	0.0020	U	0.136	0.126		mg/Kg	☼	93	70 - 134
Heptachlor	0.0068	U	0.136	0.117		mg/Kg	☼	86	62 - 134
Heptachlor	0.0068	U	0.136	0.118		mg/Kg	☼	87	62 - 134
Heptachlor epoxide	0.0068	U	0.136	0.111		mg/Kg	☼	81	65 - 127
Heptachlor epoxide	0.0068	U	0.136	0.109		mg/Kg	☼	80	65 - 127
Methoxychlor	0.0068	U	0.136	0.105		mg/Kg	☼	77	49 - 128
Methoxychlor	0.0068	U	0.136	0.102		mg/Kg	☼	75	49 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*43 - 150*
DCB Decachlorobiphenyl	*61*		*43 - 150*
Tetrachloro-m-xylene	*72*		*26 - 137*
Tetrachloro-m-xylene	*72*		*26 - 137*

Lab Sample ID: 460-266735-F-8-E MSD
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0068	U	0.135	0.119		mg/Kg	☼	88	64 - 132	10	30
4,4'-DDD	0.0068	U	0.135	0.124		mg/Kg	☼	92	64 - 132	11	30
4,4'-DDE	0.0068	U	0.135	0.119		mg/Kg	☼	88	71 - 137	9	30
4,4'-DDE	0.0068	U	0.135	0.122		mg/Kg	☼	91	71 - 137	12	30
4,4'-DDT	0.0021	J	0.135	0.124		mg/Kg	☼	90	55 - 138	10	30
4,4'-DDT	0.0024	J	0.135	0.130		mg/Kg	☼	94	55 - 138	11	30
Aldrin	0.0068	U	0.135	0.128		mg/Kg	☼	95	67 - 130	8	30
Aldrin	0.0068	U	0.135	0.134		mg/Kg	☼	99	67 - 130	13	30
alpha-BHC	0.0020	U	0.135	0.131		mg/Kg	☼	97	72 - 132	9	30
alpha-BHC	0.0020	U	0.135	0.142		mg/Kg	☼	105	72 - 132	10	30
beta-BHC	0.0020	U	0.135	0.139		mg/Kg	☼	103	71 - 137	9	30
beta-BHC	0.0020	U	0.135	0.122		mg/Kg	☼	90	71 - 137	12	30
cis-Chlordane	0.0068	U	0.135	0.120		mg/Kg	☼	89	63 - 136	8	30
cis-Chlordane	0.0068	U	0.135	0.122		mg/Kg	☼	90	63 - 136	12	30
delta-BHC	0.0020	U	0.135	0.135		mg/Kg	☼	100	61 - 143	8	30
delta-BHC	0.0020	U	0.135	0.146		mg/Kg	☼	109	61 - 143	13	30
Dieldrin	0.0020	U	0.135	0.119		mg/Kg	☼	88	66 - 135	9	30
Dieldrin	0.0020	U	0.135	0.126		mg/Kg	☼	93	66 - 135	11	30
Endosulfan I	0.0068	U	0.135	0.119		mg/Kg	☼	88	64 - 135	9	30
Endosulfan I	0.0068	U	0.135	0.120		mg/Kg	☼	89	64 - 135	12	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266735-F-8-E MSD
Matrix: Solid
Analysis Batch: 870169

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan II	0.0068	U	0.135	0.121		mg/Kg	☼	90	64 - 130	9	30
Endosulfan II	0.0068	U	0.135	0.124		mg/Kg	☼	92	64 - 130	11	30
Endosulfan sulfate	0.0068	U	0.135	0.118		mg/Kg	☼	88	61 - 134	10	30
Endosulfan sulfate	0.0068	U	0.135	0.122		mg/Kg	☼	91	61 - 134	11	30
Endrin	0.0068	U	0.135	0.120		mg/Kg	☼	89	63 - 136	10	30
Endrin	0.0068	U	0.135	0.123		mg/Kg	☼	91	63 - 136	11	30
Endrin aldehyde	0.0068	U	0.135	0.116		mg/Kg	☼	86	60 - 132	10	30
Endrin aldehyde	0.0068	U	0.135	0.111		mg/Kg	☼	83	60 - 132	11	30
Endrin ketone	0.0068	U	0.135	0.130		mg/Kg	☼	97	48 - 150	10	30
Endrin ketone	0.0068	U	0.135	0.131		mg/Kg	☼	97	48 - 150	12	30
gamma-BHC (Lindane)	0.0020	U	0.135	0.137		mg/Kg	☼	101	70 - 134	8	30
gamma-BHC (Lindane)	0.0020	U	0.135	0.142		mg/Kg	☼	105	70 - 134	12	30
Heptachlor	0.0068	U	0.135	0.127		mg/Kg	☼	94	62 - 134	8	30
Heptachlor	0.0068	U	0.135	0.134		mg/Kg	☼	99	62 - 134	12	30
Heptachlor epoxide	0.0068	U	0.135	0.121		mg/Kg	☼	90	65 - 127	9	30
Heptachlor epoxide	0.0068	U	0.135	0.122		mg/Kg	☼	90	65 - 127	12	30
Methoxychlor	0.0068	U	0.135	0.116		mg/Kg	☼	86	49 - 128	10	30
Methoxychlor	0.0068	U	0.135	0.113		mg/Kg	☼	84	49 - 128	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*43 - 150*
DCB Decachlorobiphenyl	*71*		*43 - 150*
Tetrachloro-m-xylene	*79*		*26 - 137*
Tetrachloro-m-xylene	*80*		*26 - 137*

Lab Sample ID: MB 460-870258/1-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/05/22 12:37	10/06/22 04:16	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870258/1-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/05/22 12:37	10/06/22 04:16	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/05/22 12:37	10/06/22 04:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*43 - 150*	*10/05/22 12:37*	*10/06/22 04:16*	*1*
DCB Decachlorobiphenyl	*72*		*43 - 150*	*10/05/22 12:37*	*10/06/22 04:16*	*1*
Tetrachloro-m-xylene	*85*		*26 - 137*	*10/05/22 12:37*	*10/06/22 04:16*	*1*
Tetrachloro-m-xylene	*77*		*26 - 137*	*10/05/22 12:37*	*10/06/22 04:16*	*1*

Lab Sample ID: LCS 460-870258/2-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.125		mg/Kg		94	64 - 132
4,4'-DDD	0.133	0.118		mg/Kg		89	64 - 132
4,4'-DDE	0.133	0.126		mg/Kg		95	71 - 137
4,4'-DDE	0.133	0.121		mg/Kg		91	71 - 137
4,4'-DDT	0.133	0.123		mg/Kg		92	55 - 138
4,4'-DDT	0.133	0.117		mg/Kg		88	55 - 138
Aldrin	0.133	0.133		mg/Kg		100	67 - 130
Aldrin	0.133	0.131		mg/Kg		98	67 - 130
alpha-BHC	0.133	0.130		mg/Kg		98	72 - 132
alpha-BHC	0.133	0.136		mg/Kg		102	72 - 132
beta-BHC	0.133	0.143		mg/Kg		107	71 - 137
beta-BHC	0.133	0.122		mg/Kg		91	71 - 137

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870258/2-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870258

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
cis-Chlordane			0.133	0.126		mg/Kg		94	63 - 136		
cis-Chlordane			0.133	0.121		mg/Kg		90	63 - 136		
delta-BHC			0.133	0.136		mg/Kg		102	61 - 143		
delta-BHC			0.133	0.141		mg/Kg		106	61 - 143		
Dieldrin			0.133	0.124		mg/Kg		93	66 - 135		
Dieldrin			0.133	0.122		mg/Kg		91	66 - 135		
Endosulfan I			0.133	0.125		mg/Kg		93	64 - 135		
Endosulfan I			0.133	0.117		mg/Kg		88	64 - 135		
Endosulfan II			0.133	0.126		mg/Kg		95	64 - 130		
Endosulfan II			0.133	0.119		mg/Kg		89	64 - 130		
Endosulfan sulfate			0.133	0.121		mg/Kg		91	61 - 134		
Endosulfan sulfate			0.133	0.118		mg/Kg		88	61 - 134		
Endrin			0.133	0.124		mg/Kg		93	63 - 136		
Endrin			0.133	0.118		mg/Kg		88	63 - 136		
Endrin aldehyde			0.133	0.121		mg/Kg		91	60 - 132		
Endrin aldehyde			0.133	0.108		mg/Kg		81	60 - 132		
Endrin ketone			0.133	0.134		mg/Kg		100	48 - 150		
Endrin ketone			0.133	0.127		mg/Kg		95	48 - 150		
gamma-BHC (Lindane)			0.133	0.138		mg/Kg		103	70 - 134		
gamma-BHC (Lindane)			0.133	0.137		mg/Kg		103	70 - 134		
Heptachlor			0.133	0.128		mg/Kg		96	62 - 134		
Heptachlor			0.133	0.127		mg/Kg		96	62 - 134		
Heptachlor epoxide			0.133	0.125		mg/Kg		94	65 - 127		
Heptachlor epoxide			0.133	0.120		mg/Kg		90	65 - 127		
Methoxychlor			0.133	0.116		mg/Kg		87	49 - 128		
Methoxychlor			0.133	0.103		mg/Kg		77	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*72*		*43 - 150*
DCB Decachlorobiphenyl	*70*		*43 - 150*
Tetrachloro-m-xylene	*79*		*26 - 137*
Tetrachloro-m-xylene	*75*		*26 - 137*

Lab Sample ID: LCSD 460-870258/3-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870258

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.128		mg/Kg		96	64 - 132	2	30
4,4'-DDD			0.133	0.120		mg/Kg		90	64 - 132	1	30
4,4'-DDE			0.133	0.129		mg/Kg		96	71 - 137	2	30
4,4'-DDE			0.133	0.122		mg/Kg		92	71 - 137	1	30
4,4'-DDT			0.133	0.126		mg/Kg		94	55 - 138	2	30
4,4'-DDT			0.133	0.118		mg/Kg		88	55 - 138	1	30
Aldrin			0.133	0.136		mg/Kg		102	67 - 130	2	30
Aldrin			0.133	0.129		mg/Kg		97	67 - 130	1	30
alpha-BHC			0.133	0.132		mg/Kg		99	72 - 132	1	30
alpha-BHC			0.133	0.137		mg/Kg		103	72 - 132	1	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870258/3-A
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870258

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
beta-BHC			0.133	0.145		mg/Kg		109	71 - 137	1	30
beta-BHC			0.133	0.122		mg/Kg		91	71 - 137	0	30
cis-Chlordane			0.133	0.128		mg/Kg		96	63 - 136	2	30
cis-Chlordane			0.133	0.121		mg/Kg		91	63 - 136	0	30
delta-BHC			0.133	0.138		mg/Kg		104	61 - 143	2	30
delta-BHC			0.133	0.140		mg/Kg		105	61 - 143	1	30
Dieldrin			0.133	0.126		mg/Kg		94	66 - 135	1	30
Dieldrin			0.133	0.123		mg/Kg		92	66 - 135	1	30
Endosulfan I			0.133	0.127		mg/Kg		95	64 - 135	2	30
Endosulfan I			0.133	0.118		mg/Kg		88	64 - 135	0	30
Endosulfan II			0.133	0.128		mg/Kg		96	64 - 130	2	30
Endosulfan II			0.133	0.120		mg/Kg		90	64 - 130	1	30
Endosulfan sulfate			0.133	0.123		mg/Kg		93	61 - 134	2	30
Endosulfan sulfate			0.133	0.118		mg/Kg		88	61 - 134	0	30
Endrin			0.133	0.126		mg/Kg		95	63 - 136	2	30
Endrin			0.133	0.119		mg/Kg		89	63 - 136	1	30
Endrin aldehyde			0.133	0.123		mg/Kg		92	60 - 132	2	30
Endrin aldehyde			0.133	0.110		mg/Kg		82	60 - 132	1	30
Endrin ketone			0.133	0.136		mg/Kg		102	48 - 150	2	30
Endrin ketone			0.133	0.126		mg/Kg		94	48 - 150	1	30
gamma-BHC (Lindane)			0.133	0.140		mg/Kg		105	70 - 134	1	30
gamma-BHC (Lindane)			0.133	0.138		mg/Kg		104	70 - 134	0	30
Heptachlor			0.133	0.130		mg/Kg		98	62 - 134	1	30
Heptachlor			0.133	0.127		mg/Kg		95	62 - 134	1	30
Heptachlor epoxide			0.133	0.128		mg/Kg		96	65 - 127	2	30
Heptachlor epoxide			0.133	0.121		mg/Kg		91	65 - 127	1	30
Methoxychlor			0.133	0.118		mg/Kg		88	49 - 128	1	30
Methoxychlor			0.133	0.102		mg/Kg		76	49 - 128	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*74*		*43 - 150*
DCB Decachlorobiphenyl	*70*		*43 - 150*
Tetrachloro-m-xylene	*81*		*26 - 137*
Tetrachloro-m-xylene	*78*		*26 - 137*

Lab Sample ID: 460-266794-E-1-L MS
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.024		0.142	0.149		mg/Kg	☼	88	64 - 132
4,4'-DDD	0.024		0.142	0.143		mg/Kg	☼	84	64 - 132
4,4'-DDE	0.015		0.142	0.142		mg/Kg	☼	89	71 - 137
4,4'-DDE	0.017		0.142	0.138		mg/Kg	☼	85	71 - 137
4,4'-DDT	0.059		0.142	0.185		mg/Kg	☼	89	55 - 138
4,4'-DDT	0.062		0.142	0.191		mg/Kg	☼	90	55 - 138
Aldrin	0.0072	U	0.142	0.136		mg/Kg	☼	95	67 - 130
Aldrin	0.0072	U	0.142	0.139		mg/Kg	☼	97	67 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266794-E-1-L MS
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0021	U	0.142	0.131		mg/Kg	☼	92	72 - 132
alpha-BHC	0.0021	U	0.142	0.144		mg/Kg	☼	101	72 - 132
beta-BHC	0.0021	U	0.142	0.135		mg/Kg	☼	95	71 - 137
beta-BHC	0.0021	U	0.142	0.114		mg/Kg	☼	80	71 - 137
cis-Chlordane	0.0088		0.142	0.138		mg/Kg	☼	90	63 - 136
cis-Chlordane	0.0088		0.142	0.127		mg/Kg	☼	83	63 - 136
delta-BHC	0.0021	U	0.142	0.140		mg/Kg	☼	98	61 - 143
delta-BHC	0.0021	U	0.142	0.147		mg/Kg	☼	103	61 - 143
Dieldrin	0.0037		0.142	0.137		mg/Kg	☼	94	66 - 135
Dieldrin	0.0037		0.142	0.134		mg/Kg	☼	91	66 - 135
Endosulfan I	0.0072	U	0.142	0.125		mg/Kg	☼	88	64 - 135
Endosulfan I	0.0072	U	0.142	0.124		mg/Kg	☼	87	64 - 135
Endosulfan II	0.0072	U	0.142	0.132		mg/Kg	☼	92	64 - 130
Endosulfan II	0.0072	U	0.142	0.126		mg/Kg	☼	88	64 - 130
Endosulfan sulfate	0.0072	U	0.142	0.121		mg/Kg	☼	85	61 - 134
Endosulfan sulfate	0.0072	U	0.142	0.113		mg/Kg	☼	80	61 - 134
Endrin	0.0072	U	0.142	0.128		mg/Kg	☼	90	63 - 136
Endrin	0.0072	U	0.142	0.131		mg/Kg	☼	92	63 - 136
Endrin aldehyde	0.0072	U	0.142	0.111		mg/Kg	☼	78	60 - 132
Endrin aldehyde	0.0072	U	0.142	0.0981		mg/Kg	☼	69	60 - 132
Endrin ketone	0.0072	U	0.142	0.139		mg/Kg	☼	98	48 - 150
Endrin ketone	0.0072	U	0.142	0.144		mg/Kg	☼	101	48 - 150
gamma-BHC (Lindane)	0.0021	U	0.142	0.144		mg/Kg	☼	101	70 - 134
gamma-BHC (Lindane)	0.0021	U	0.142	0.147		mg/Kg	☼	103	70 - 134
Heptachlor	0.0072	U	0.142	0.135		mg/Kg	☼	95	62 - 134
Heptachlor	0.0072	U	0.142	0.141		mg/Kg	☼	99	62 - 134
Heptachlor epoxide	0.0072	U	0.142	0.130		mg/Kg	☼	91	65 - 127
Heptachlor epoxide	0.0072	U	0.142	0.126		mg/Kg	☼	89	65 - 127
Methoxychlor	0.0072	U	0.142	0.116		mg/Kg	☼	82	49 - 128
Methoxychlor	0.0072	U	0.142	0.120		mg/Kg	☼	84	49 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*58*		*43 - 150*
DCB Decachlorobiphenyl	*100*		*43 - 150*
Tetrachloro-m-xylene	*68*		*26 - 137*
Tetrachloro-m-xylene	*62*		*26 - 137*

Lab Sample ID: 460-266794-E-1-M MSD
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.024		0.142	0.121		mg/Kg	☼	68	64 - 132	21	30
4,4'-DDD	0.024		0.142	0.117		mg/Kg	☼	65	64 - 132	20	30
4,4'-DDE	0.015		0.142	0.114	*	mg/Kg	☼	70	71 - 137	22	30
4,4'-DDE	0.017		0.142	0.112	*	mg/Kg	☼	67	71 - 137	21	30
4,4'-DDT	0.059		0.142	0.157		mg/Kg	☼	69	55 - 138	17	30
4,4'-DDT	0.062		0.142	0.158		mg/Kg	☼	68	55 - 138	19	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266794-E-1-M MSD
Matrix: Solid
Analysis Batch: 870367

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.0072	U	0.142	0.112		mg/Kg	☼	78	67 - 130	20	30
Aldrin	0.0072	U	0.142	0.112		mg/Kg	☼	79	67 - 130	21	30
alpha-BHC	0.0021	U	0.142	0.106		mg/Kg	☼	75	72 - 132	21	30
alpha-BHC	0.0021	U	0.142	0.114		mg/Kg	☼	80	72 - 132	23	30
beta-BHC	0.0021	U	0.142	0.110		mg/Kg	☼	77	71 - 137	21	30
beta-BHC	0.0021	U	0.142	0.0961	*	mg/Kg	☼	68	71 - 137	17	30
cis-Chlordane	0.0088		0.142	0.112		mg/Kg	☼	72	63 - 136	21	30
cis-Chlordane	0.0088		0.142	0.106		mg/Kg	☼	68	63 - 136	19	30
delta-BHC	0.0021	U	0.142	0.115		mg/Kg	☼	81	61 - 143	19	30
delta-BHC	0.0021	U	0.142	0.119		mg/Kg	☼	83	61 - 143	21	30
Dieldrin	0.0037		0.142	0.112		mg/Kg	☼	76	66 - 135	21	30
Dieldrin	0.0037		0.142	0.109		mg/Kg	☼	74	66 - 135	20	30
Endosulfan I	0.0072	U	0.142	0.102		mg/Kg	☼	72	64 - 135	20	30
Endosulfan I	0.0072	U	0.142	0.101		mg/Kg	☼	71	64 - 135	20	30
Endosulfan II	0.0072	U	0.142	0.107		mg/Kg	☼	75	64 - 130	21	30
Endosulfan II	0.0072	U	0.142	0.102		mg/Kg	☼	72	64 - 130	21	30
Endosulfan sulfate	0.0072	U	0.142	0.0997		mg/Kg	☼	70	61 - 134	20	30
Endosulfan sulfate	0.0072	U	0.142	0.0919		mg/Kg	☼	65	61 - 134	21	30
Endrin	0.0072	U	0.142	0.104		mg/Kg	☼	73	63 - 136	20	30
Endrin	0.0072	U	0.142	0.106		mg/Kg	☼	74	63 - 136	21	30
Endrin aldehyde	0.0072	U	0.142	0.0904		mg/Kg	☼	64	60 - 132	21	30
Endrin aldehyde	0.0072	U	0.142	0.0794	*	mg/Kg	☼	56	60 - 132	21	30
Endrin ketone	0.0072	U	0.142	0.112		mg/Kg	☼	78	48 - 150	22	30
Endrin ketone	0.0072	U	0.142	0.111		mg/Kg	☼	78	48 - 150	25	30
gamma-BHC (Lindane)	0.0021	U	0.142	0.114		mg/Kg	☼	80	70 - 134	23	30
gamma-BHC (Lindane)	0.0021	U	0.142	0.115		mg/Kg	☼	81	70 - 134	24	30
Heptachlor	0.0072	U	0.142	0.110		mg/Kg	☼	77	62 - 134	20	30
Heptachlor	0.0072	U	0.142	0.114		mg/Kg	☼	80	62 - 134	22	30
Heptachlor epoxide	0.0072	U	0.142	0.106		mg/Kg	☼	74	65 - 127	20	30
Heptachlor epoxide	0.0072	U	0.142	0.104		mg/Kg	☼	73	65 - 127	19	30
Methoxychlor	0.0072	U	0.142	0.0963		mg/Kg	☼	68	49 - 128	19	30
Methoxychlor	0.0072	U	0.142	0.0972		mg/Kg	☼	68	49 - 128	21	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*43 - 150*
DCB Decachlorobiphenyl	*60*		*43 - 150*
Tetrachloro-m-xylene	*57*		*26 - 137*
Tetrachloro-m-xylene	*50*		*26 - 137*

Lab Sample ID: MB 460-870672/1-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870672/1-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/07/22 11:51	10/10/22 08:00	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		10/07/22 11:51	10/10/22 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*43 - 150*	*10/07/22 11:51*	*10/10/22 08:00*	*1*
DCB Decachlorobiphenyl	*80*		*43 - 150*	*10/07/22 11:51*	*10/10/22 08:00*	*1*
Tetrachloro-m-xylene	*92*		*26 - 137*	*10/07/22 11:51*	*10/10/22 08:00*	*1*
Tetrachloro-m-xylene	*41*		*26 - 137*	*10/07/22 11:51*	*10/10/22 08:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870672/2-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.158		mg/Kg		118	64 - 132
4,4'-DDD	0.133	0.152		mg/Kg		114	64 - 132
4,4'-DDE	0.133	0.158		mg/Kg		119	71 - 137
4,4'-DDE	0.133	0.151		mg/Kg		114	71 - 137
4,4'-DDT	0.133	0.152		mg/Kg		114	55 - 138
4,4'-DDT	0.133	0.145		mg/Kg		109	55 - 138
Aldrin	0.133	0.167		mg/Kg		125	67 - 130
Aldrin	0.133	0.167		mg/Kg		125	67 - 130
alpha-BHC	0.133	0.162		mg/Kg		121	72 - 132
alpha-BHC	0.133	0.174		mg/Kg		130	72 - 132
beta-BHC	0.133	0.173		mg/Kg		130	71 - 137
beta-BHC	0.133	0.151		mg/Kg		113	71 - 137
cis-Chlordane	0.133	0.155		mg/Kg		116	63 - 136
cis-Chlordane	0.133	0.149		mg/Kg		112	63 - 136
delta-BHC	0.133	0.168		mg/Kg		126	61 - 143
delta-BHC	0.133	0.176		mg/Kg		132	61 - 143
Dieldrin	0.133	0.155		mg/Kg		116	66 - 135
Dieldrin	0.133	0.155		mg/Kg		116	66 - 135
Endosulfan I	0.133	0.153		mg/Kg		115	64 - 135
Endosulfan I	0.133	0.147		mg/Kg		111	64 - 135
Endosulfan II	0.133	0.158		mg/Kg		119	64 - 130
Endosulfan II	0.133	0.150		mg/Kg		112	64 - 130
Endosulfan sulfate	0.133	0.148		mg/Kg		111	61 - 134
Endosulfan sulfate	0.133	0.145		mg/Kg		109	61 - 134
Endrin	0.133	0.156		mg/Kg		117	63 - 136
Endrin	0.133	0.149		mg/Kg		112	63 - 136
Endrin aldehyde	0.133	0.153		mg/Kg		115	60 - 132
Endrin aldehyde	0.133	0.137		mg/Kg		103	60 - 132
Endrin ketone	0.133	0.161		mg/Kg		121	48 - 150
Endrin ketone	0.133	0.157		mg/Kg		118	48 - 150
gamma-BHC (Lindane)	0.133	0.169		mg/Kg		126	70 - 134
gamma-BHC (Lindane)	0.133	0.174		mg/Kg		130	70 - 134
Heptachlor	0.133	0.161		mg/Kg		121	62 - 134
Heptachlor	0.133	0.162		mg/Kg		122	62 - 134
Heptachlor epoxide	0.133	0.157		mg/Kg		118	65 - 127
Heptachlor epoxide	0.133	0.152		mg/Kg		114	65 - 127
Methoxychlor	0.133	0.145		mg/Kg		109	49 - 128
Methoxychlor	0.133	0.130		mg/Kg		97	49 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*43 - 150*
DCB Decachlorobiphenyl	*88*		*43 - 150*
Tetrachloro-m-xylene	*98*		*26 - 137*
Tetrachloro-m-xylene	*95*		*26 - 137*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870672/3-A
Matrix: Solid
Analysis Batch: 871004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870672

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.155		mg/Kg		116	64 - 132	2	30
4,4'-DDD			0.133	0.148		mg/Kg		111	64 - 132	3	30
4,4'-DDE			0.133	0.156		mg/Kg		117	71 - 137	2	30
4,4'-DDE			0.133	0.147		mg/Kg		110	71 - 137	3	30
4,4'-DDT			0.133	0.147		mg/Kg		110	55 - 138	3	30
4,4'-DDT			0.133	0.141		mg/Kg		106	55 - 138	2	30
Aldrin			0.133	0.163		mg/Kg		122	67 - 130	2	30
Aldrin			0.133	0.162		mg/Kg		122	67 - 130	3	30
alpha-BHC			0.133	0.163		mg/Kg		122	72 - 132	1	30
alpha-BHC			0.133	0.168		mg/Kg		126	72 - 132	3	30
beta-BHC			0.133	0.173		mg/Kg		130	71 - 137	0	30
beta-BHC			0.133	0.148		mg/Kg		111	71 - 137	2	30
cis-Chlordane			0.133	0.154		mg/Kg		115	63 - 136	1	30
cis-Chlordane			0.133	0.146		mg/Kg		109	63 - 136	3	30
delta-BHC			0.133	0.167		mg/Kg		125	61 - 143	0	30
delta-BHC			0.133	0.174		mg/Kg		130	61 - 143	2	30
Dieldrin			0.133	0.153		mg/Kg		115	66 - 135	1	30
Dieldrin			0.133	0.151		mg/Kg		113	66 - 135	3	30
Endosulfan I			0.133	0.153		mg/Kg		115	64 - 135	0	30
Endosulfan I			0.133	0.143		mg/Kg		107	64 - 135	3	30
Endosulfan II			0.133	0.155		mg/Kg		117	64 - 130	2	30
Endosulfan II			0.133	0.147		mg/Kg		110	64 - 130	2	30
Endosulfan sulfate			0.133	0.144		mg/Kg		108	61 - 134	3	30
Endosulfan sulfate			0.133	0.141		mg/Kg		106	61 - 134	3	30
Endrin			0.133	0.153		mg/Kg		115	63 - 136	2	30
Endrin			0.133	0.146		mg/Kg		109	63 - 136	2	30
Endrin aldehyde			0.133	0.149		mg/Kg		112	60 - 132	3	30
Endrin aldehyde			0.133	0.134		mg/Kg		100	60 - 132	3	30
Endrin ketone			0.133	0.157		mg/Kg		118	48 - 150	3	30
Endrin ketone			0.133	0.152		mg/Kg		114	48 - 150	3	30
gamma-BHC (Lindane)			0.133	0.169		mg/Kg		127	70 - 134	3	30
gamma-BHC (Lindane)			0.133	0.169		mg/Kg		127	70 - 134	0	30
Heptachlor			0.133	0.160		mg/Kg		120	62 - 134	2	30
Heptachlor			0.133	0.159		mg/Kg		120	62 - 134	1	30
Heptachlor epoxide			0.133	0.155		mg/Kg		116	65 - 127	2	30
Heptachlor epoxide			0.133	0.147		mg/Kg		110	65 - 127	3	30
Methoxychlor			0.133	0.140		mg/Kg		105	49 - 128	4	30
Methoxychlor			0.133	0.125		mg/Kg		93	49 - 128	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*43 - 150*
DCB Decachlorobiphenyl	*84*		*43 - 150*
Tetrachloro-m-xylene	*98*		*26 - 137*
Tetrachloro-m-xylene	*93*		*26 - 137*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-870100/1-A
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/04/22 16:32	10/05/22 07:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*
DCB Decachlorobiphenyl	*105*		*10 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*
Tetrachloro-m-xylene	*97*		*42 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*
Tetrachloro-m-xylene	*92*		*42 - 150*	*10/04/22 16:32*	*10/05/22 07:01*	*1*

Lab Sample ID: LCS 460-870100/2-A
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.386		mg/Kg		116	65 - 133
Aroclor 1016	0.333	0.318		mg/Kg		95	65 - 133
Aroclor 1260	0.333	0.388		mg/Kg		116	67 - 150
Aroclor 1260	0.333	0.336		mg/Kg		101	67 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*126*		*10 - 150*
DCB Decachlorobiphenyl	*117*		*10 - 150*
Tetrachloro-m-xylene	*119*		*42 - 150*
Tetrachloro-m-xylene	*95*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870100/3-A
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.325		mg/Kg		97	65 - 133	2	30
Aroclor 1016			0.333	0.325		mg/Kg		98	65 - 133	17	30
Aroclor 1260			0.333	0.317		mg/Kg		95	67 - 150	20	30
Aroclor 1260			0.333	0.308		mg/Kg		92	67 - 150	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*10 - 150*
DCB Decachlorobiphenyl	*109*		*10 - 150*
Tetrachloro-m-xylene	*102*		*42 - 150*
Tetrachloro-m-xylene	*99*		*42 - 150*

Lab Sample ID: 460-266735-E-8-D MS
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.068	U	0.340	0.308		mg/Kg	☼	91	65 - 133		
Aroclor 1016	0.068	U	0.340	0.304		mg/Kg	☼	89	65 - 133		
Aroclor 1260	0.068	U	0.340	0.303		mg/Kg	☼	89	67 - 150		
Aroclor 1260	0.068	U	0.340	0.293		mg/Kg	☼	86	67 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*10 - 150*
DCB Decachlorobiphenyl	*101*		*10 - 150*
Tetrachloro-m-xylene	*93*		*42 - 150*
Tetrachloro-m-xylene	*94*		*42 - 150*

Lab Sample ID: 460-266735-F-8-D MSD
Matrix: Solid
Analysis Batch: 870183

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.068	U	0.337	0.324		mg/Kg	☼	96	65 - 133	5	30
Aroclor 1016	0.068	U	0.337	0.312		mg/Kg	☼	93	65 - 133	3	30
Aroclor 1260	0.068	U	0.337	0.320		mg/Kg	☼	95	67 - 150	5	30
Aroclor 1260	0.068	U	0.337	0.301		mg/Kg	☼	89	67 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*10 - 150*
DCB Decachlorobiphenyl	*104*		*10 - 150*
Tetrachloro-m-xylene	*99*		*42 - 150*
Tetrachloro-m-xylene	*96*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-870255/1-A
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/05/22 12:32	10/06/22 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*
Tetrachloro-m-xylene	*87*		*42 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*
Tetrachloro-m-xylene	*97*		*42 - 150*	*10/05/22 12:32*	*10/06/22 10:59*	*1*

Lab Sample ID: LCS 460-870255/2-A
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.340		mg/Kg		102	65 - 133
Aroclor 1016	0.333	0.321		mg/Kg		96	65 - 133
Aroclor 1260	0.333	0.355		mg/Kg		107	67 - 150
Aroclor 1260	0.333	0.337		mg/Kg		101	67 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*10 - 150*
DCB Decachlorobiphenyl	*90*		*10 - 150*
Tetrachloro-m-xylene	*99*		*42 - 150*
Tetrachloro-m-xylene	*92*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870255/3-A
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870255

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.340		mg/Kg		102	65 - 133	6	30
Aroclor 1016			0.333	0.349		mg/Kg		105	65 - 133	3	30
Aroclor 1260			0.333	0.349		mg/Kg		105	67 - 150	2	30
Aroclor 1260			0.333	0.338		mg/Kg		102	67 - 150	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*10 - 150*
DCB Decachlorobiphenyl	*95*		*10 - 150*
Tetrachloro-m-xylene	*81*		*42 - 150*
Tetrachloro-m-xylene	*93*		*42 - 150*

Lab Sample ID: 460-266794-E-1-I MS
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.072	U	0.356	0.395		mg/Kg	☼	111	65 - 133
Aroclor 1016	0.072	U	0.356	0.390		mg/Kg	☼	110	65 - 133
Aroclor 1260	0.072	U	0.356	0.445		mg/Kg	☼	125	67 - 150
Aroclor 1260	0.072	U	0.356	0.403		mg/Kg	☼	113	67 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*113*		*10 - 150*
DCB Decachlorobiphenyl	*111*		*10 - 150*
Tetrachloro-m-xylene	*90*		*42 - 150*
Tetrachloro-m-xylene	*94*		*42 - 150*

Lab Sample ID: 460-266794-E-1-J MSD
Matrix: Solid
Analysis Batch: 870434

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.072	U	0.356	0.412		mg/Kg	☼	116	65 - 133	4	30
Aroclor 1016	0.072	U	0.356	0.408		mg/Kg	☼	115	65 - 133	5	30
Aroclor 1260	0.072	U	0.356	0.436		mg/Kg	☼	122	67 - 150	2	30
Aroclor 1260	0.072	U	0.356	0.404		mg/Kg	☼	114	67 - 150	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*10 - 150*
DCB Decachlorobiphenyl	*110*		*10 - 150*
Tetrachloro-m-xylene	*88*		*42 - 150*
Tetrachloro-m-xylene	*92*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-870673/1-A
Matrix: Solid
Analysis Batch: 871035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		10/07/22 11:56	10/10/22 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*10 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*
DCB Decachlorobiphenyl	*95*		*10 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*
Tetrachloro-m-xylene	*90*		*42 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*
Tetrachloro-m-xylene	*89*		*42 - 150*	*10/07/22 11:56*	*10/10/22 10:52*	*1*

Lab Sample ID: LCS 460-870673/2-A
Matrix: Solid
Analysis Batch: 871035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.390		mg/Kg		117	65 - 133
Aroclor 1016	0.333	0.369		mg/Kg		111	65 - 133
Aroclor 1260	0.333	0.407		mg/Kg		122	67 - 150
Aroclor 1260	0.333	0.349		mg/Kg		105	67 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*10 - 150*
DCB Decachlorobiphenyl	*75*		*10 - 150*
Tetrachloro-m-xylene	*72*		*42 - 150*
Tetrachloro-m-xylene	*72*		*42 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870673/3-A
Matrix: Solid
Analysis Batch: 871035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.413		mg/Kg		124	65 - 133	6	30
Aroclor 1016			0.333	0.394		mg/Kg		118	65 - 133	7	30
Aroclor 1260			0.333	0.450		mg/Kg		135	67 - 150	10	30
Aroclor 1260			0.333	0.433		mg/Kg		130	67 - 150	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*10 - 150*
DCB Decachlorobiphenyl	*85*		*10 - 150*
Tetrachloro-m-xylene	*78*		*42 - 150*
Tetrachloro-m-xylene	*79*		*42 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-870217/1-A
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Calcium	100	U	100	17.7	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Magnesium	100	U	100	10.2	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Nickel	2.0	U	2.0	0.47	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Potassium	100	U	100	16.2	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Sodium	100	U	100	45.7	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/05/22 09:10	10/05/22 18:06	1
Zinc	8.0	U	8.0	3.1	mg/Kg		10/05/22 09:10	10/05/22 18:06	1

Lab Sample ID: LCSSRM 460-870217/2-A ^20
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870217

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			7690	6293		mg/Kg		81.8	45.3 - 154.7		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-870217/2-A ^20
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	111	59.91		mg/Kg		54.0	0.7 - 205.4
Arsenic	112	104.6		mg/Kg		93.4	82.0 - 118.8
Barium	154	135.7		mg/Kg		88.1	81.8 - 118.2
Beryllium	121	113.8		mg/Kg		94.0	82.2 - 118.2
Cadmium	196	178.7		mg/Kg		91.2	82.1 - 118.4
Calcium	4590	3921		mg/Kg		85.4	81.0 - 119.2
Chromium	103	93.51		mg/Kg		90.8	80.8 - 118.4
Cobalt	46.4	42.43		mg/Kg		91.4	83.2 - 116.6
Copper	70.4	68.17		mg/Kg		96.8	83.4 - 116.6
Iron	13400	11290		mg/Kg		84.2	58.2 - 141.8
Lead	73.2	66.40		mg/Kg		90.7	82.8 - 117.3
Magnesium	2240	1961	J	mg/Kg		87.5	75.4 - 125.0
Manganese	373	336.0		mg/Kg		90.1	81.5 - 118.5
Nickel	249	234.5		mg/Kg		94.2	81.9 - 118.1
Potassium	1940	1651	J	mg/Kg		85.1	68.0 - 131.4
Selenium	215	203.0		mg/Kg		94.4	78.1 - 121.9
Silver	78.5	70.48		mg/Kg		89.8	78.9 - 121.1
Sodium	132	2000	U	mg/Kg		95.1	71.4 - 129.5
Thallium	67.7	64.92		mg/Kg		95.9	80.1 - 120.1
Vanadium	177	161.4		mg/Kg		91.2	78.0 - 122.0
Zinc	360	324.5		mg/Kg		90.1	79.7 - 120.3

Lab Sample ID: 460-266735-E-8-K MS
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2820		512	3699	4	mg/Kg	☼	172	75 - 125
Antimony	1.0	U	5.12	3.21	N	mg/Kg	☼	63	75 - 125
Arsenic	1.1		10.2	10.73		mg/Kg	☼	94	75 - 125
Barium	14.6		10.2	24.56		mg/Kg	☼	97	75 - 125
Beryllium	0.20	J	5.12	5.25		mg/Kg	☼	99	75 - 125
Cadmium	1.0	U	5.12	4.89		mg/Kg	☼	95	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266735-E-8-K MS
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	606		512	1059		mg/Kg	☼	88	75 - 125
Chromium	7.9		10.2	18.58		mg/Kg	☼	105	75 - 125
Cobalt	2.6		5.12	7.75		mg/Kg	☼	101	75 - 125
Copper	7.5		10.2	19.06		mg/Kg	☼	113	75 - 125
Iron	9880		512	10270	4	mg/Kg	☼	76	75 - 125
Lead	1.9		5.12	6.99		mg/Kg	☼	99	75 - 125
Magnesium	1240		512	1797		mg/Kg	☼	108	75 - 125
Manganese	304		51.2	240.1	4	mg/Kg	☼	-125	75 - 125
Nickel	6.1		10.2	17.22		mg/Kg	☼	109	75 - 125
Potassium	376		512	1048	N	mg/Kg	☼	131	75 - 125
Selenium	1.3	U	10.2	9.78		mg/Kg	☼	96	75 - 125
Silver	0.41	U	5.12	4.77		mg/Kg	☼	93	75 - 125
Sodium	62.5	J	512	546.8		mg/Kg	☼	95	75 - 125
Thallium	0.044	J	4.10	3.88		mg/Kg	☼	94	75 - 125
Vanadium	9.9		10.2	20.76		mg/Kg	☼	106	75 - 125
Zinc	12.1		51.2	58.84		mg/Kg	☼	91	75 - 125

Lab Sample ID: 460-266735-E-8-L MSD
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	2820		507	3561	4	mg/Kg	☼	147	75 - 125	4	20
Antimony	1.0	U	5.07	3.26	N	mg/Kg	☼	64	75 - 125	1	20
Arsenic	1.1		10.1	10.98		mg/Kg	☼	97	75 - 125	2	20
Barium	14.6		10.1	23.31		mg/Kg	☼	86	75 - 125	5	20
Beryllium	0.20	J	5.07	5.36		mg/Kg	☼	102	75 - 125	2	20
Cadmium	1.0	U	5.07	4.97		mg/Kg	☼	98	75 - 125	2	20
Calcium	606		507	1111		mg/Kg	☼	100	75 - 125	5	20
Chromium	7.9		10.1	17.53		mg/Kg	☼	95	75 - 125	6	20
Cobalt	2.6		5.07	7.95		mg/Kg	☼	106	75 - 125	3	20
Copper	7.5		10.1	17.47		mg/Kg	☼	99	75 - 125	9	20
Iron	9880		507	12000	4	mg/Kg	☼	419	75 - 125	16	20
Lead	1.9		5.07	7.17		mg/Kg	☼	104	75 - 125	3	20
Magnesium	1240		507	2071	N	mg/Kg	☼	163	75 - 125	14	20
Manganese	304		50.7	271.1	4	mg/Kg	☼	-66	75 - 125	12	20
Nickel	6.1		10.1	18.24		mg/Kg	☼	120	75 - 125	6	20
Potassium	376		507	899.2		mg/Kg	☼	103	75 - 125	15	20
Selenium	1.3	U	10.1	9.70		mg/Kg	☼	96	75 - 125	1	20
Silver	0.41	U	5.07	4.86		mg/Kg	☼	96	75 - 125	2	20
Sodium	62.5	J	507	547.9		mg/Kg	☼	96	75 - 125	0	20
Thallium	0.044	J	4.05	3.93		mg/Kg	☼	96	75 - 125	1	20
Vanadium	9.9		10.1	21.79		mg/Kg	☼	117	75 - 125	5	20
Zinc	12.1		50.7	59.24		mg/Kg	☼	93	75 - 125	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266735-E-8-J DU
Matrix: Solid
Analysis Batch: 870271

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870217

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	2820			2823		mg/Kg	☼			0.2	20
Antimony	1.0	U		1.0	U	mg/Kg	☼			NC	20
Arsenic	1.1			1.12		mg/Kg	☼			2	20
Barium	14.6			14.65		mg/Kg	☼			0.3	20
Beryllium	0.20	J		0.200	J	mg/Kg	☼			2	20
Cadmium	1.0	U		1.0	U	mg/Kg	☼			NC	20
Calcium	606			605.7		mg/Kg	☼			0.06	20
Chromium	7.9			7.96		mg/Kg	☼			1	20
Cobalt	2.6			2.57		mg/Kg	☼			0.5	20
Copper	7.5			7.50		mg/Kg	☼			0.6	20
Iron	9880			9862		mg/Kg	☼			0.2	20
Lead	1.9			1.90		mg/Kg	☼			0.5	20
Magnesium	1240			1246		mg/Kg	☼			0.1	20
Manganese	304			305.7		mg/Kg	☼			0.5	20
Nickel	6.1			6.10		mg/Kg	☼			0.2	20
Potassium	376			379.8		mg/Kg	☼			0.9	20
Selenium	1.3	U		1.3	U	mg/Kg	☼			NC	20
Silver	0.41	U		0.41	U	mg/Kg	☼			NC	20
Sodium	62.5	J		68.86	J	mg/Kg	☼			10	20
Thallium	0.044	J		0.0445	J	mg/Kg	☼			2	20
Vanadium	9.9			10.02		mg/Kg	☼			1	20
Zinc	12.1			12.19		mg/Kg	☼			0.6	20

Lab Sample ID: MB 460-870218/1-A
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Calcium	100	U	100	17.7	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Magnesium	100	U	100	10.2	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Nickel	2.0	U	2.0	0.47	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Potassium	100	U	100	16.2	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Sodium	100	U	100	45.7	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/05/22 09:17	10/07/22 01:00	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/05/22 09:17	10/07/22 01:00	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-870218/1-A
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	8.0	U	8.0	3.1	mg/Kg		10/05/22 09:17	10/07/22 01:00	1

Lab Sample ID: LCSSRM 460-870218/2-A ^10
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7690	7249		mg/Kg		94.3	45.3 - 154.7
Antimony	111	72.84		mg/Kg		65.6	0.7 - 205.4
Arsenic	112	120.1		mg/Kg		107.2	82.0 - 118.8
Barium	154	152.3		mg/Kg		98.9	81.8 - 118.2
Beryllium	121	120.4		mg/Kg		99.5	82.2 - 118.2
Cadmium	196	205.4		mg/Kg		104.8	82.1 - 118.4
Calcium	4590	4523		mg/Kg		98.5	81.0 - 119.2
Chromium	103	108.0		mg/Kg		104.8	80.8 - 118.4
Cobalt	46.4	48.79		mg/Kg		105.1	83.2 - 116.6
Copper	70.4	75.46		mg/Kg		107.2	83.4 - 116.6
Iron	13400	13230		mg/Kg		98.8	58.2 - 141.8
Lead	73.2	79.59		mg/Kg		108.7	82.8 - 117.3
Magnesium	2240	2267		mg/Kg		101.2	75.4 - 125.0
Manganese	373	417.0		mg/Kg		111.8	81.5 - 118.5
Nickel	249	272.3		mg/Kg		109.4	81.9 - 118.1
Potassium	1940	1888		mg/Kg		97.3	68.0 - 131.4
Selenium	215	233.8		mg/Kg		108.8	78.1 - 121.9
Silver	78.5	81.38		mg/Kg		103.7	78.9 - 121.1
Sodium	132	1000	U	mg/Kg		108.4	71.4 - 129.5
Thallium	67.7	71.46		mg/Kg		105.5	80.1 - 120.1
Vanadium	177	183.4		mg/Kg		103.6	78.0 - 122.0
Zinc	360	388.6		mg/Kg		108.0	79.7 - 120.3

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266794-E-1-D MS ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7300		534	9425	4	mg/Kg	☼	398	75 - 125
Antimony	5.3	U	5.34	2.64	J N	mg/Kg	☼	49	75 - 125
Arsenic	4.6	J	10.7	17.38		mg/Kg	☼	119	75 - 125
Barium	136		10.7	238.8	4	mg/Kg	☼	963	75 - 125
Beryllium	0.48	J	5.34	5.61		mg/Kg	☼	96	75 - 125
Cadmium	5.3	U	5.34	6.03		mg/Kg	☼	113	75 - 125
Calcium	4930		534	12480	4	mg/Kg	☼	1414	75 - 125
Chromium	17.2		10.7	30.92	N	mg/Kg	☼	129	75 - 125
Cobalt	6.8	J	5.34	12.50		mg/Kg	☼	107	75 - 125
Copper	54.9		10.7	70.64	4	mg/Kg	☼	148	75 - 125
Iron	63000		534	89570	4	mg/Kg	☼	4982	75 - 125
Lead	179		5.34	316.2	4	mg/Kg	☼	2558	75 - 125
Magnesium	1750		534	2835	N	mg/Kg	☼	203	75 - 125
Manganese	1170		53.4	1340	4	mg/Kg	☼	321	75 - 125
Nickel	13.3		10.7	28.95	N	mg/Kg	☼	146	75 - 125
Potassium	470	J	534	1184	N	mg/Kg	☼	133	75 - 125
Selenium	6.7	U	10.7	10.50		mg/Kg	☼	98	75 - 125
Silver	2.1	U	5.34	5.17		mg/Kg	☼	97	75 - 125
Sodium	534	U	534	642.8		mg/Kg	☼	120	75 - 125
Thallium	2.1	U	4.27	4.28		mg/Kg	☼	100	75 - 125
Vanadium	30.8		10.7	44.60	N	mg/Kg	☼	129	75 - 125
Zinc	184		53.4	286.2	N	mg/Kg	☼	191	75 - 125

Lab Sample ID: 460-266794-E-1-E MSD ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	7300		534	8198	4	mg/Kg	☼	168	75 - 125	14	20
Antimony	5.3	U	5.34	2.58	J N	mg/Kg	☼	48	75 - 125	2	20
Arsenic	4.6	J	10.7	15.65		mg/Kg	☼	103	75 - 125	10	20
Barium	136		10.7	209.2	4	mg/Kg	☼	685	75 - 125	13	20
Beryllium	0.48	J	5.34	5.58		mg/Kg	☼	96	75 - 125	0	20
Cadmium	5.3	U	5.34	5.88		mg/Kg	☼	110	75 - 125	3	20
Calcium	4930		534	5574	4 N	mg/Kg	☼	121	75 - 125	77	20
Chromium	17.2		10.7	26.32		mg/Kg	☼	85	75 - 125	16	20
Cobalt	6.8	J	5.34	11.22		mg/Kg	☼	83	75 - 125	11	20
Copper	54.9		10.7	65.88	4	mg/Kg	☼	103	75 - 125	7	20
Iron	63000		534	98060	4	mg/Kg	☼	6572	75 - 125	9	20
Lead	179		5.34	233.3	4 N	mg/Kg	☼	1007	75 - 125	30	20
Magnesium	1750		534	2575	N	mg/Kg	☼	154	75 - 125	10	20
Manganese	1170		53.4	1642	4	mg/Kg	☼	886	75 - 125	20	20
Nickel	13.3		10.7	23.16	N	mg/Kg	☼	92	75 - 125	22	20
Potassium	470	J	534	1185	N	mg/Kg	☼	134	75 - 125	0	20
Selenium	6.7	U	10.7	10.23		mg/Kg	☼	96	75 - 125	3	20
Silver	2.1	U	5.34	5.20		mg/Kg	☼	97	75 - 125	1	20
Sodium	534	U	534	601.3		mg/Kg	☼	113	75 - 125	7	20
Thallium	2.1	U	4.27	4.28		mg/Kg	☼	100	75 - 125	0	20
Vanadium	30.8		10.7	35.79	N	mg/Kg	☼	47	75 - 125	22	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266794-E-1-E MSD ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	184		53.4	267.3	N	mg/Kg	☼	156	75 - 125	7	20

Lab Sample ID: 460-266794-E-1-C DU ^5
Matrix: Solid
Analysis Batch: 870468

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870218

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	7300		6920		mg/Kg	☼	5	20
Antimony	5.3	U	5.3	U	mg/Kg	☼	NC	20
Arsenic	4.6	J	4.78	J	mg/Kg	☼	3	20
Barium	136		188.1	*	mg/Kg	☼	32	20
Beryllium	0.48	J	0.670	J	mg/Kg	☼	34	20
Cadmium	5.3	U	5.3	U	mg/Kg	☼	NC	20
Calcium	4930		4820		mg/Kg	☼	2	20
Chromium	17.2		14.71		mg/Kg	☼	16	20
Cobalt	6.8	J	6.15	J	mg/Kg	☼	10	20
Copper	54.9		40.01	*	mg/Kg	☼	31	20
Iron	63000		144100	*	mg/Kg	☼	78	20
Lead	179		177.2		mg/Kg	☼	1	20
Magnesium	1750		2033		mg/Kg	☼	15	20
Manganese	1170		2373	*	mg/Kg	☼	68	20
Nickel	13.3		11.92		mg/Kg	☼	11	20
Potassium	470	J	545.9		mg/Kg	☼	15	20
Selenium	6.7	U	6.7	U	mg/Kg	☼	NC	20
Silver	2.1	U	2.1	U	mg/Kg	☼	NC	20
Sodium	534	U	534	U	mg/Kg	☼	NC	20
Thallium	2.1	U	2.1	U	mg/Kg	☼	NC	20
Vanadium	30.8		28.72		mg/Kg	☼	7	20
Zinc	184		179.3		mg/Kg	☼	3	20

Lab Sample ID: MB 460-870410/1-A
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Calcium	100	U	100	17.7	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Magnesium	100	U	100	10.2	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/06/22 08:43	10/07/22 21:08	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-870410/1-A
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	2.0	U	2.0	0.47	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Potassium	100	U	100	16.2	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Sodium	100	U	100	45.7	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/06/22 08:43	10/07/22 21:08	1
Zinc	8.0	U	8.0	3.1	mg/Kg		10/06/22 08:43	10/07/22 21:08	1

Lab Sample ID: LCSSRM 460-870410/2-A ^10
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7690	7194		mg/Kg		93.5	45.3 - 154.7
Antimony	111	74.97		mg/Kg		67.5	0.7 - 205.4
Arsenic	112	115.7		mg/Kg		103.3	82.0 - 118.8
Barium	154	149.6		mg/Kg		97.2	81.8 - 118.2
Beryllium	121	118.4		mg/Kg		97.9	82.2 - 118.2
Cadmium	196	189.3		mg/Kg		96.6	82.1 - 118.4
Calcium	4590	4257		mg/Kg		92.7	81.0 - 119.2
Chromium	103	98.72		mg/Kg		95.8	80.8 - 118.4
Cobalt	46.4	44.74		mg/Kg		96.4	83.2 - 116.6
Copper	70.4	74.00		mg/Kg		105.1	83.4 - 116.6
Iron	13400	13350		mg/Kg		99.6	58.2 - 141.8
Lead	73.2	73.10		mg/Kg		99.9	82.8 - 117.3
Magnesium	2240	2160		mg/Kg		96.4	75.4 - 125.0
Manganese	373	362.0		mg/Kg		97.1	81.5 - 118.5
Nickel	249	250.4		mg/Kg		100.6	81.9 - 118.1
Potassium	1940	1878		mg/Kg		96.8	68.0 - 131.4
Selenium	215	219.2		mg/Kg		102.0	78.1 - 121.9
Silver	78.5	78.47		mg/Kg		100	78.9 - 121.1
Sodium	132	1000	U	mg/Kg		94.8	71.4 - 129.5
Thallium	67.7	69.51		mg/Kg		102.7	80.1 - 120.1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-870410/2-A ^10
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870410

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Vanadium			177	171.8		mg/Kg		97.1	78.0 - 122.0		
Zinc			360	349.1		mg/Kg		97.0	79.7 - 120.3		

Lab Sample ID: 460-266826-2 MS
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	3380		518	4270	4	mg/Kg	☼	172	75 - 125		
Antimony	1.0	U	5.18	3.02	N	mg/Kg	☼	58	75 - 125		
Arsenic	0.72	J	10.4	10.52		mg/Kg	☼	95	75 - 125		
Barium	22.4		10.4	35.13		mg/Kg	☼	123	75 - 125		
Beryllium	0.19	J	5.18	5.31		mg/Kg	☼	99	75 - 125		
Cadmium	1.0	U	5.18	4.76		mg/Kg	☼	92	75 - 125		
Calcium	18100		518	14400	4	mg/Kg	☼	-705	75 - 125		
Chromium	9.7		10.4	21.99		mg/Kg	☼	119	75 - 125		
Cobalt	3.0		5.18	7.89		mg/Kg	☼	94	75 - 125		
Copper	8.9		10.4	20.49		mg/Kg	☼	112	75 - 125		
Iron	6800		518	11850	4	mg/Kg	☼	975	75 - 125		
Lead	4.8		5.18	9.07		mg/Kg	☼	81	75 - 125		
Magnesium	9550		518	8577	4	mg/Kg	☼	-187	75 - 125		
Manganese	190		51.8	270.7	N	mg/Kg	☼	156	75 - 125		
Nickel	6.7		10.4	16.74		mg/Kg	☼	97	75 - 125		
Potassium	694		518	1210		mg/Kg	☼	99	75 - 125		
Selenium	1.3	U	10.4	9.34		mg/Kg	☼	90	75 - 125		
Silver	0.41	U	5.18	4.54		mg/Kg	☼	88	75 - 125		
Sodium	175		518	672.2		mg/Kg	☼	96	75 - 125		
Thallium	0.41	U	4.15	3.90		mg/Kg	☼	94	75 - 125		
Vanadium	12.5		10.4	23.88		mg/Kg	☼	110	75 - 125		
Zinc	16.4		51.8	64.25		mg/Kg	☼	92	75 - 125		

Lab Sample ID: 460-266826-2 DU
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	3380			3502		mg/Kg	☼			4	20
Antimony	1.0	U		1.0	U	mg/Kg	☼			NC	20
Arsenic	0.72	J		0.847	J	mg/Kg	☼			16	20
Barium	22.4			30.00	*	mg/Kg	☼			29	20
Beryllium	0.19	J		0.200	J	mg/Kg	☼			5	20
Cadmium	1.0	U		1.0	U	mg/Kg	☼			NC	20
Calcium	18100			17040		mg/Kg	☼			6	20
Chromium	9.7			10.79		mg/Kg	☼			11	20
Cobalt	3.0			3.53		mg/Kg	☼			16	20
Copper	8.9			11.29	*	mg/Kg	☼			23	20
Iron	6800			7007		mg/Kg	☼			3	20
Lead	4.8			4.36		mg/Kg	☼			11	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266826-2 DU
Matrix: Solid
Analysis Batch: 870666

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870410

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	9550		8465		mg/Kg	☼	12	20
Manganese	190		268.3	*	mg/Kg	☼	34	20
Nickel	6.7		8.13		mg/Kg	☼	19	20
Potassium	694		666.8		mg/Kg	☼	4	20
Selenium	1.3	U	1.3	U	mg/Kg	☼	NC	20
Silver	0.41	U	0.41	U	mg/Kg	☼	NC	20
Sodium	175		211.8		mg/Kg	☼	19	20
Thallium	0.41	U	0.0530	J	mg/Kg	☼	NC	20
Vanadium	12.5		11.77		mg/Kg	☼	6	20
Zinc	16.4		17.75		mg/Kg	☼	8	20

Lab Sample ID: MB 460-870740/1-A
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	5.5	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Antimony	1.0	U	1.0	0.15	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Barium	2.0	U	2.0	0.15	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Beryllium	0.40	U	0.40	0.057	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Cadmium	1.0	U	1.0	0.11	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Calcium	100	U	100	17.7	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Chromium	2.0	U	2.0	0.91	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Cobalt	2.0	U	2.0	0.15	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Copper	2.0	U	2.0	0.37	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Iron	60.0	U	60.0	20.2	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Lead	0.60	U	0.60	0.20	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Magnesium	100	U	100	10.2	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Manganese	4.0	U	4.0	0.40	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Nickel	2.0	U	2.0	0.47	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Potassium	100	U	100	16.2	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Selenium	1.3	U	1.3	0.13	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Silver	0.40	U	0.40	0.089	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Sodium	100	U	100	45.7	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Thallium	0.40	U	0.40	0.041	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Vanadium	2.0	U	2.0	0.21	mg/Kg		10/07/22 19:45	10/10/22 13:35	1
Zinc	8.0	U	8.0	3.1	mg/Kg		10/07/22 19:45	10/10/22 13:35	1

Lab Sample ID: LCSSRM 460-870740/2-A ^10
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7690	7405		mg/Kg		96.3	45.3 - 154.7
Antimony	111	65.88		mg/Kg		59.4	0.7 - 205.4
Arsenic	112	114.6		mg/Kg		102.3	82.0 - 118.8

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-870740/2-A ^10
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Barium	154	154.5		mg/Kg		100.3	81.8 - 118.2
Beryllium	121	115.5		mg/Kg		95.4	82.2 - 118.2
Cadmium	196	191.0		mg/Kg		97.5	82.1 - 118.4
Calcium	4590	4444		mg/Kg		96.8	81.0 - 119.2
Chromium	103	100.0		mg/Kg		97.1	80.8 - 118.4
Cobalt	46.4	45.01		mg/Kg		97.0	83.2 - 116.6
Copper	70.4	71.20		mg/Kg		101.1	83.4 - 116.6
Iron	13400	13230		mg/Kg		98.7	58.2 - 141.8
Lead	73.2	75.01		mg/Kg		102.5	82.8 - 117.3
Magnesium	2240	2261		mg/Kg		100.9	75.4 - 125.0
Manganese	373	372.4		mg/Kg		99.8	81.5 - 118.5
Nickel	249	245.2		mg/Kg		98.5	81.9 - 118.1
Potassium	1940	1897		mg/Kg		97.8	68.0 - 131.4
Selenium	215	209.1		mg/Kg		97.3	78.1 - 121.9
Silver	78.5	79.77		mg/Kg		101.6	78.9 - 121.1
Sodium	132	952	U	mg/Kg		106.4	71.4 - 129.5
Thallium	67.7	68.21		mg/Kg		100.8	80.1 - 120.1
Vanadium	177	174.5		mg/Kg		98.6	78.0 - 122.0
Zinc	360	356.4		mg/Kg		99.0	79.7 - 120.3

Lab Sample ID: 460-266993-F-2-G MS
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	8340		453	8604	4	mg/Kg	☼	57	75 - 125
Antimony	0.91	U	4.53	4.68		mg/Kg	☼	103	75 - 125
Arsenic	3.5		9.06	11.95		mg/Kg	☼	93	75 - 125
Barium	43.0		9.06	50.40	4	mg/Kg	☼	82	75 - 125
Beryllium	0.58		4.53	4.92		mg/Kg	☼	96	75 - 125
Cadmium	0.91	U	4.53	4.35		mg/Kg	☼	96	75 - 125
Calcium	1110		453	1781	N	mg/Kg	☼	148	75 - 125
Chromium	52.0		9.06	60.14	4	mg/Kg	☼	90	75 - 125
Cobalt	5.8		4.53	9.70		mg/Kg	☼	86	75 - 125
Copper	166		9.06	156.2	4	mg/Kg	☼	-107	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266993-F-2-G MS
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	27700		453	32910	4	mg/Kg	☼	1158	75 - 125
Lead	48.4		4.53	55.10	4	mg/Kg	☼	148	75 - 125
Magnesium	3450		453	3523	4	mg/Kg	☼	17	75 - 125
Manganese	340		45.3	339.9	4	mg/Kg	☼	-1	75 - 125
Nickel	17.1		9.06	23.96		mg/Kg	☼	76	75 - 125
Potassium	1870		453	2042	4	mg/Kg	☼	38	75 - 125
Selenium	0.15	J	9.06	8.24		mg/Kg	☼	89	75 - 125
Silver	0.36	U	4.53	4.16		mg/Kg	☼	92	75 - 125
Sodium	230		453	662.9		mg/Kg	☼	95	75 - 125
Thallium	0.12	J	3.62	3.72		mg/Kg	☼	99	75 - 125
Vanadium	43.5		9.06	65.77	4	mg/Kg	☼	246	75 - 125
Zinc	36.8		45.3	76.19		mg/Kg	☼	87	75 - 125

Lab Sample ID: 460-266993-F-2-H MSD
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	8340		432	9199	4	mg/Kg	☼	198	75 - 125	7	20
Antimony	0.91	U	4.32	4.63		mg/Kg	☼	107	75 - 125	1	20
Arsenic	3.5		8.65	15.51	N	mg/Kg	☼	139	75 - 125	26	20
Barium	43.0		8.65	57.57	4	mg/Kg	☼	169	75 - 125	13	20
Beryllium	0.58		4.32	5.08		mg/Kg	☼	104	75 - 125	3	20
Cadmium	0.91	U	4.32	4.37		mg/Kg	☼	101	75 - 125	0	20
Calcium	1110		432	1838	N	mg/Kg	☼	168	75 - 125	3	20
Chromium	52.0		8.65	67.94	4	mg/Kg	☼	185	75 - 125	12	20
Cobalt	5.8		4.32	11.37	N	mg/Kg	☼	129	75 - 125	16	20
Copper	166		8.65	241.7	4 N	mg/Kg	☼	877	75 - 125	43	20
Iron	27700		432	42250	4 N	mg/Kg	☼	3375	75 - 125	25	20
Lead	48.4		4.32	63.92	4	mg/Kg	☼	359	75 - 125	15	20
Magnesium	3450		432	3890	4	mg/Kg	☼	103	75 - 125	10	20
Nickel	17.1		8.65	26.72		mg/Kg	☼	112	75 - 125	11	20
Potassium	1870		432	2130	4	mg/Kg	☼	61	75 - 125	4	20
Selenium	0.15	J	8.65	7.83		mg/Kg	☼	89	75 - 125	5	20
Silver	0.36	U	4.32	4.07		mg/Kg	☼	94	75 - 125	2	20
Sodium	230		432	649.8		mg/Kg	☼	97	75 - 125	2	20
Thallium	0.12	J	3.46	3.67		mg/Kg	☼	103	75 - 125	1	20
Vanadium	43.5		8.65	67.17	4	mg/Kg	☼	274	75 - 125	2	20
Zinc	36.8		43.2	85.18		mg/Kg	☼	112	75 - 125	11	20

Lab Sample ID: 460-266993-F-2-H MSD ^2
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	340		43.2	945.5	4 N	mg/Kg	☼	1400	75 - 125	94	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266993-E-2-B DU
Matrix: Solid
Analysis Batch: 871052

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870740

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	8340		8350		mg/Kg	☼	0.07	20
Antimony	0.91	U	0.86	U	mg/Kg	☼	NC	20
Arsenic	3.5		3.55		mg/Kg	☼	2	20
Barium	43.0		42.99		mg/Kg	☼	0.07	20
Beryllium	0.58		0.575		mg/Kg	☼	0.3	20
Cadmium	0.91	U	0.86	U	mg/Kg	☼	NC	20
Calcium	1110		1087		mg/Kg	☼	2	20
Chromium	52.0		51.09		mg/Kg	☼	2	20
Cobalt	5.8		5.95		mg/Kg	☼	3	20
Copper	166		170.0		mg/Kg	☼	2	20
Iron	27700		28100		mg/Kg	☼	2	20
Lead	48.4		47.62		mg/Kg	☼	2	20
Magnesium	3450		3561		mg/Kg	☼	3	20
Manganese	340		345.3		mg/Kg	☼	1	20
Nickel	17.1		17.06		mg/Kg	☼	0.1	20
Potassium	1870		1874		mg/Kg	☼	0.3	20
Selenium	0.15	J	0.180	J	mg/Kg	☼	21	20
Silver	0.36	U	0.35	U	mg/Kg	☼	NC	20
Sodium	230		225.4		mg/Kg	☼	2	20
Thallium	0.12	J	0.130	J	mg/Kg	☼	4	20
Vanadium	43.5		44.47		mg/Kg	☼	2	20
Zinc	36.8		37.34		mg/Kg	☼	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-870160/10-A
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/05/22 00:06	10/05/22 03:55	1

Lab Sample ID: LCSSRM 460-870160/11-A ^40
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	15.66		mg/Kg		118.7	58.0 - 142.4

Lab Sample ID: 460-266735-E-8-H MS
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.026		0.0800	0.113		mg/Kg	☼	109	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-266735-F-8-G MSD
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.026		0.0792	0.112		mg/Kg	☼	109	80 - 120	1	20

Lab Sample ID: 460-266735-A-8-G DU
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870160

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.026		0.0276		mg/Kg	☼	8	20

Lab Sample ID: MB 460-870161/1-A
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/05/22 00:21	10/05/22 04:49	1

Lab Sample ID: LCSSRM 460-870161/2-A ^40
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	15.79		mg/Kg		119.6	58.0 - 142.4

Lab Sample ID: 460-266794-E-1-A MSD
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.11		0.0848	0.207		mg/Kg	☼	114	80 - 120	0	20

Lab Sample ID: 460-266794-F-1-B MS
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.11		0.0848	0.206		mg/Kg	☼	114	80 - 120

Lab Sample ID: 460-266794-A-1-A DU
Matrix: Solid
Analysis Batch: 870198

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870161

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.11		0.114		mg/Kg	☼	4	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-870359/10-A
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/06/22 00:22	10/06/22 03:54	1

Lab Sample ID: LCSSRM 460-870359/11-A ^40
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870359

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	15.54		mg/Kg		117.7	58.0 - 142.4

Lab Sample ID: 460-266826-2 MS
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.017	U	0.0850	0.0942		mg/Kg	☼	111	80 - 120

Lab Sample ID: 460-266826-2 DU
Matrix: Solid
Analysis Batch: 870402

Client Sample ID: SB-05_29-31_20221004
Prep Type: Total/NA
Prep Batch: 870359

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.017	U	0.00917	J	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-870977/10-A
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0080	mg/Kg		10/10/22 00:23	10/10/22 03:43	1

Lab Sample ID: LCSSRM 460-870977/11-A ^40
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870977

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	13.2	16.74		mg/Kg		126.8	58.0 - 142.4

Lab Sample ID: 460-266877-1 MS
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: SB-01_0-2_20221005
Prep Type: Total/NA
Prep Batch: 870977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.018		0.0852	0.111		mg/Kg	☼	108	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-266877-1 DU
Matrix: Solid
Analysis Batch: 871013

Client Sample ID: SB-01_0-2_20221005
Prep Type: Total/NA
Prep Batch: 870977

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.018		0.0214		mg/Kg	☼	15	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-871018/1-A
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		10/10/22 08:35	10/10/22 11:45	1

Lab Sample ID: LCSI 460-871018/3-A
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	759.9		mg/Kg		107	80 - 120

Lab Sample ID: LCSSRM 460-871018/2-A
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	15.9	15.40		mg/Kg		97.0	84.1 - 114.4

Lab Sample ID: 460-266877-2 MSI
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: SB-01_31-33_20221005
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.0	U	725	788.6		mg/Kg	☼	109	75 - 125

Lab Sample ID: 460-266877-2 MSS
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: SB-01_31-33_20221005
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.0	U	41.0	35.71		mg/Kg	☼	87	75 - 125

Lab Sample ID: 460-266877-2 DU
Matrix: Solid
Analysis Batch: 871076

Client Sample ID: SB-01_31-33_20221005
Prep Type: Total/NA
Prep Batch: 871018

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.0	U	2.0	U	mg/Kg	☼	NC	20

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 460-871024/1-A
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		10/10/22 08:32	10/10/22 12:10	1

Lab Sample ID: LCSI 460-871024/3-A
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	666.3		mg/Kg		94	80 - 120

Lab Sample ID: LCSSRM 460-871024/2-A
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	15.9	16.33		mg/Kg		102.8	84.1 - 114.4

Lab Sample ID: 460-266794-F-1-H MSS
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.1	U	42.7	37.56		mg/Kg	☼	88	75 - 125

Lab Sample ID: 460-266794-F-1-I MSI
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.1	U	756	759.2		mg/Kg	☼	100	75 - 125

Lab Sample ID: 460-266794-F-1-G DU
Matrix: Solid
Analysis Batch: 871102

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 871024

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.1	U	2.1	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-871123/1-A
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.85	mg/Kg		10/10/22 17:57	10/11/22 09:15	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 460-871123/3-A
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	666.9		mg/Kg		94	80 - 120

Lab Sample ID: LCSSRM 460-871123/2-A
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	15.9	15.22		mg/Kg		95.8	84.1 - 114.4

Lab Sample ID: 460-266802-E-4-Q MSS
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.4	U	47.1	41.65		mg/Kg	☼	88	75 - 125

Lab Sample ID: 460-266802-E-4-R MSI
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	2.4	U	833	825.7		mg/Kg	☼	99	75 - 125

Lab Sample ID: 460-266802-E-4-P DU
Matrix: Solid
Analysis Batch: 871259

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 871123

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.4	U	2.4	U	mg/Kg	☼	NC	20

Method: Moisture - Percent Moisture

Lab Sample ID: 460-266739-E-2 DU
Matrix: Solid
Analysis Batch: 870220

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.2		7.7		%		7	20
Percent Solids	91.8		92.3		%		0.6	20

Lab Sample ID: 460-266740-C-2 DU
Matrix: Solid
Analysis Batch: 870340

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.7		9.7		%		0.1	20
Percent Solids	90.3		90.3		%		0	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 460-266846-A-2 DU
Matrix: Solid
Analysis Batch: 870340

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	17.9			19.8		%				10	20
Percent Solids	82.1			80.2		%				2	20

Lab Sample ID: 460-266974-A-7 DU
Matrix: Solid
Analysis Batch: 871138

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.0			10.8		%				8	20
Percent Solids	90.0			89.2		%				0.9	20

GC/MS VOA

Prep Batch: 870066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	5035	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	5035	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	5035	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	5035	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	5035	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	5035	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	5035	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	5035	
LB3 460-870066/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 870087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-870066/1-A	Method Blank	Total/NA	Solid	8260D	870066
MB 460-870087/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-870087/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870087/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8260D	870066
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8260D	870066
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8260D	870066
MB 460-870199/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870199/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870199/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8260D	870066
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8260D	870066
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8260D	870066
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8260D	870066
MB 460-870277/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870277/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870277/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 870338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	5035	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	5035	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	5035	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	5035	
LB3 460-870338/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 870378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-870338/1-A	Method Blank	Total/NA	Solid	8260D	870338
MB 460-870378/9	Method Blank	Total/NA	Solid	8260D	
LCS 460-870378/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870378/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

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Analysis Batch: 870379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8260D	870066
MB 460-870379/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-870379/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870379/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8260D	870338
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8260D	870338
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8260D	870338
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8260D	870338
MB 460-870501/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870501/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870501/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 870524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	5035	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	5035	
LB3 460-870524/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 870690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8260D	870524
LB3 460-870524/1-A	Method Blank	Total/NA	Solid	8260D	870524
MB 460-870690/9	Method Blank	Total/NA	Solid	8260D	
LCS 460-870690/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870690/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 870776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8260D	870524
MB 460-870776/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-870776/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-870776/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

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Prep Batch: 870137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3546	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3546	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3546	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3546	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3546	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3546	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3546	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3546	
MB 460-870137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870137/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870137/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 870137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266779-B-1-B MS	Matrix Spike	Total/NA	Solid	3546	
460-266779-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8270E	870137
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8270E	870137
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8270E	870137
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8270E	870137
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8270E	870137
MB 460-870137/1-A	Method Blank	Total/NA	Solid	8270E	870137
LCS 460-870137/2-A	Lab Control Sample	Total/NA	Solid	8270E	870137
LCSD 460-870137/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	870137
460-266779-B-1-B MS	Matrix Spike	Total/NA	Solid	8270E	870137
460-266779-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	870137

Prep Batch: 870226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-1 - DL	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3546	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3546	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3546	
MB 460-870226/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870226/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870226/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266802-E-4-A MS	Matrix Spike	Total/NA	Solid	3546	
460-266802-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8270E	870226
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8270E	870226
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8270E	870226
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8270E	870226
MB 460-870226/1-A	Method Blank	Total/NA	Solid	8270E	870226
LCS 460-870226/2-A	Lab Control Sample	Total/NA	Solid	8270E	870226
LCSD 460-870226/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	870226
460-266802-E-4-A MS	Matrix Spike	Total/NA	Solid	8270E	870226
460-266802-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	870226

Analysis Batch: 870349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1 - DL	SB-05_0-2_20221004	Total/NA	Solid	8270E	870226

Prep Batch: 870659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 870659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1 - DL	SB-01_0-2_20221005	Total/NA	Solid	3546	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3546	
MB 460-870659/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870659/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870659/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266324-F-1-A MS	Matrix Spike	Total/NA	Solid	3546	
460-266324-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8270E	870659
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8270E	870659
MB 460-870659/1-A	Method Blank	Total/NA	Solid	8270E	870659
LCS 460-870659/2-A	Lab Control Sample	Total/NA	Solid	8270E	870659
LCSD 460-870659/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	870659
460-266324-F-1-A MS	Matrix Spike	Total/NA	Solid	8270E	870659
460-266324-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	870659

Analysis Batch: 870853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1 - DL	SB-01_0-2_20221005	Total/NA	Solid	8270E	870659

GC Semi VOA

Prep Batch: 870100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3546	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3546	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3546	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3546	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3546	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3546	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3546	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3546	
MB 460-870100/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870100/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870100/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266735-E-8-D MS	Matrix Spike	Total/NA	Solid	3546	
460-266735-F-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 870105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3546	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3546	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3546	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3546	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3546	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3546	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3546	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3546	
MB 460-870105/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 870105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-870105/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870105/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266735-E-8-F MS	Matrix Spike	Total/NA	Solid	3546	
460-266735-F-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8081B	870105
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8081B	870105
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8081B	870105
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8081B	870105
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8081B	870105
MB 460-870105/1-A	Method Blank	Total/NA	Solid	8081B	870105
LCS 460-870105/2-A	Lab Control Sample	Total/NA	Solid	8081B	870105
LCSD 460-870105/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	870105
460-266735-E-8-F MS	Matrix Spike	Total/NA	Solid	8081B	870105
460-266735-F-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	870105

Analysis Batch: 870183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	8082A	870100
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	8082A	870100
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	8082A	870100
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	8082A	870100
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	8082A	870100
MB 460-870100/1-A	Method Blank	Total/NA	Solid	8082A	870100
LCS 460-870100/2-A	Lab Control Sample	Total/NA	Solid	8082A	870100
LCSD 460-870100/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	870100
460-266735-E-8-D MS	Matrix Spike	Total/NA	Solid	8082A	870100
460-266735-F-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	870100

Prep Batch: 870255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3546	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3546	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3546	
MB 460-870255/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870255/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870255/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266794-E-1-I MS	Matrix Spike	Total/NA	Solid	3546	
460-266794-E-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

QC Association Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

GC Semi VOA

Prep Batch: 870258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3546	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3546	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3546	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3546	
MB 460-870258/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870258/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870258/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-266794-E-1-L MS	Matrix Spike	Total/NA	Solid	3546	
460-266794-E-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 870367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8081B	870258
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8081B	870258
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8081B	870258
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8081B	870258
MB 460-870258/1-A	Method Blank	Total/NA	Solid	8081B	870258
LCS 460-870258/2-A	Lab Control Sample	Total/NA	Solid	8081B	870258
LCSD 460-870258/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	870258
460-266794-E-1-L MS	Matrix Spike	Total/NA	Solid	8081B	870258
460-266794-E-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	870258

Analysis Batch: 870434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	8082A	870255
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	8082A	870255
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	8082A	870255
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	8082A	870255
MB 460-870255/1-A	Method Blank	Total/NA	Solid	8082A	870255
LCS 460-870255/2-A	Lab Control Sample	Total/NA	Solid	8082A	870255
LCSD 460-870255/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	870255
460-266794-E-1-I MS	Matrix Spike	Total/NA	Solid	8082A	870255
460-266794-E-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	870255

Prep Batch: 870672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3546	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3546	
MB 460-870672/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870672/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870672/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 870673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3546	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3546	
MB 460-870673/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-870673/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-870673/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

GC Semi VOA

Analysis Batch: 871004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8081B	870672
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8081B	870672
MB 460-870672/1-A	Method Blank	Total/NA	Solid	8081B	870672
LCS 460-870672/2-A	Lab Control Sample	Total/NA	Solid	8081B	870672
LCSD 460-870672/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	870672

Analysis Batch: 871035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	8082A	870673
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	8082A	870673
MB 460-870673/1-A	Method Blank	Total/NA	Solid	8082A	870673
LCS 460-870673/2-A	Lab Control Sample	Total/NA	Solid	8082A	870673
LCSD 460-870673/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	870673

Metals

Prep Batch: 870160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	7471B	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	7471B	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	7471B	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	7471B	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	7471B	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	7471B	
MB 460-870160/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870160/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-266735-E-8-H MS	Matrix Spike	Total/NA	Solid	7471B	
460-266735-F-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-266735-A-8-G DU	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 870161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	7471B	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	7471B	
MB 460-870161/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870161/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-266794-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-266794-F-1-B MS	Matrix Spike	Total/NA	Solid	7471B	
460-266794-A-1-A DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 870198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	7471B	870160
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	7471B	870160
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	7471B	870160
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	7471B	870160
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	7471B	870160
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	7471B	870160
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	7471B	870161
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	7471B	870161
MB 460-870160/10-A	Method Blank	Total/NA	Solid	7471B	870160

Metals (Continued)

Analysis Batch: 870198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-870161/1-A	Method Blank	Total/NA	Solid	7471B	870161
LCSSRM 460-870160/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	870160
LCSSRM 460-870161/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	870161
460-266735-E-8-H MS	Matrix Spike	Total/NA	Solid	7471B	870160
460-266735-F-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	870160
460-266794-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	870161
460-266794-F-1-B MS	Matrix Spike	Total/NA	Solid	7471B	870161
460-266735-A-8-G DU	Duplicate	Total/NA	Solid	7471B	870160
460-266794-A-1-A DU	Duplicate	Total/NA	Solid	7471B	870161

Prep Batch: 870217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3050B	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3050B	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3050B	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3050B	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3050B	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3050B	
MB 460-870217/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870217/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
460-266735-E-8-K MS	Matrix Spike	Total/NA	Solid	3050B	
460-266735-E-8-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266735-E-8-J DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 870218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3050B	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3050B	
MB 460-870218/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870218/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-266794-E-1-D MS ^5	Matrix Spike	Total/NA	Solid	3050B	
460-266794-E-1-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266794-E-1-C DU ^5	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 870271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	6020B	870217
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	6020B	870217
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	6020B	870217
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	6020B	870217
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	6020B	870217
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	6020B	870217
MB 460-870217/1-A	Method Blank	Total/NA	Solid	6020B	870217
LCSSRM 460-870217/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	870217
460-266735-E-8-K MS	Matrix Spike	Total/NA	Solid	6020B	870217
460-266735-E-8-L MSD	Matrix Spike Duplicate	Total/NA	Solid	6020B	870217
460-266735-E-8-J DU	Duplicate	Total/NA	Solid	6020B	870217

Prep Batch: 870359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 870359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	7471B	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	7471B	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	7471B	
MB 460-870359/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870359/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	7471B	
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	7471B	

Analysis Batch: 870402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	7471B	870359
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	7471B	870359
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	7471B	870359
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	7471B	870359
MB 460-870359/10-A	Method Blank	Total/NA	Solid	7471B	870359
LCSSRM 460-870359/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	870359
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	7471B	870359
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	7471B	870359

Prep Batch: 870410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3050B	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3050B	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3050B	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3050B	
MB 460-870410/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870410/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	3050B	
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	3050B	

Analysis Batch: 870468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	6020B	870218
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	6020B	870218
MB 460-870218/1-A	Method Blank	Total/NA	Solid	6020B	870218
LCSSRM 460-870218/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	870218
460-266794-E-1-D MS ^5	Matrix Spike	Total/NA	Solid	6020B	870218
460-266794-E-1-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6020B	870218
460-266794-E-1-C DU ^5	Duplicate	Total/NA	Solid	6020B	870218

Analysis Batch: 870666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	6020B	870410
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	6020B	870410
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	6020B	870410
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	6020B	870410
MB 460-870410/1-A	Method Blank	Total/NA	Solid	6020B	870410
LCSSRM 460-870410/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	870410
460-266826-2 MS	SB-05_29-31_20221004	Total/NA	Solid	6020B	870410
460-266826-2 DU	SB-05_29-31_20221004	Total/NA	Solid	6020B	870410

QC Association Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Metals

Prep Batch: 870740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3050B	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3050B	
MB 460-870740/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-870740/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-266993-F-2-G MS	Matrix Spike	Total/NA	Solid	3050B	
460-266993-F-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266993-F-2-H MSD ^2	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-266993-E-2-B DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 870977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	7471B	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	7471B	
MB 460-870977/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-870977/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-266877-1 MS	SB-01_0-2_20221005	Total/NA	Solid	7471B	
460-266877-1 DU	SB-01_0-2_20221005	Total/NA	Solid	7471B	

Analysis Batch: 871013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	7471B	870977
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	7471B	870977
MB 460-870977/10-A	Method Blank	Total/NA	Solid	7471B	870977
LCSSRM 460-870977/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	870977
460-266877-1 MS	SB-01_0-2_20221005	Total/NA	Solid	7471B	870977
460-266877-1 DU	SB-01_0-2_20221005	Total/NA	Solid	7471B	870977

Analysis Batch: 871052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	6020B	870740
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	6020B	870740
MB 460-870740/1-A	Method Blank	Total/NA	Solid	6020B	870740
LCSSRM 460-870740/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	870740
460-266993-F-2-G MS	Matrix Spike	Total/NA	Solid	6020B	870740
460-266993-F-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6020B	870740
460-266993-F-2-H MSD ^2	Matrix Spike Duplicate	Total/NA	Solid	6020B	870740
460-266993-E-2-B DU	Duplicate	Total/NA	Solid	6020B	870740

General Chemistry

Analysis Batch: 870220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	Moisture	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	Moisture	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	Moisture	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	Moisture	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	Moisture	
460-266739-E-2 DU	Duplicate	Total/NA	Solid	Moisture	

General Chemistry

Analysis Batch: 870340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	Moisture	
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	Moisture	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	Moisture	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	Moisture	
460-266740-C-2 DU	Duplicate	Total/NA	Solid	Moisture	
460-266846-A-2 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 871018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	3060A	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	3060A	
MB 460-871018/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-871018/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-871018/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-266877-2 MSI	SB-01_31-33_20221005	Total/NA	Solid	3060A	
460-266877-2 MSS	SB-01_31-33_20221005	Total/NA	Solid	3060A	
460-266877-2 DU	SB-01_31-33_20221005	Total/NA	Solid	3060A	

Prep Batch: 871024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	3060A	
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	3060A	
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	3060A	
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	3060A	
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	3060A	
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	3060A	
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	3060A	
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	3060A	
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	3060A	
MB 460-871024/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-871024/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-871024/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-266794-F-1-H MSS	Matrix Spike	Total/NA	Solid	3060A	
460-266794-F-1-I MSI	Matrix Spike	Total/NA	Solid	3060A	
460-266794-F-1-G DU	Duplicate	Total/NA	Solid	3060A	

Analysis Batch: 871076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	7196A	871018
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018
MB 460-871018/1-A	Method Blank	Total/NA	Solid	7196A	871018
LCSI 460-871018/3-A	Lab Control Sample	Total/NA	Solid	7196A	871018
LCSSRM 460-871018/2-A	Lab Control Sample	Total/NA	Solid	7196A	871018
460-266877-2 MSI	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018
460-266877-2 MSS	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018
460-266877-2 DU	SB-01_31-33_20221005	Total/NA	Solid	7196A	871018

Analysis Batch: 871102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-1	SB-02_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-2	SB-02_31-33_20221003	Total/NA	Solid	7196A	871024

General Chemistry (Continued)

Analysis Batch: 871102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-3	SB-03_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-4	SB-03_31-33_20221003	Total/NA	Solid	7196A	871024
460-266752-5	SB-04_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-6	SB-04_32-34_20221003	Total/NA	Solid	7196A	871024
460-266752-7	SB-07_0-2_20221003	Total/NA	Solid	7196A	871024
460-266752-8	SB-07_32-34_20221003	Total/NA	Solid	7196A	871024
460-266826-1	SB-05_0-2_20221004	Total/NA	Solid	7196A	871024
MB 460-871024/1-A	Method Blank	Total/NA	Solid	7196A	871024
LCSI 460-871024/3-A	Lab Control Sample	Total/NA	Solid	7196A	871024
LCSSRM 460-871024/2-A	Lab Control Sample	Total/NA	Solid	7196A	871024
460-266794-F-1-H MSS	Matrix Spike	Total/NA	Solid	7196A	871024
460-266794-F-1-I MSI	Matrix Spike	Total/NA	Solid	7196A	871024
460-266794-F-1-G DU	Duplicate	Total/NA	Solid	7196A	871024

Prep Batch: 871123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	3060A	
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	3060A	
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	3060A	
MB 460-871123/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-871123/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-871123/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-266802-E-4-Q MSS	Matrix Spike	Total/NA	Solid	3060A	
460-266802-E-4-R MSI	Matrix Spike	Total/NA	Solid	3060A	
460-266802-E-4-P DU	Duplicate	Total/NA	Solid	3060A	

Analysis Batch: 871138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-1	SB-01_0-2_20221005	Total/NA	Solid	Moisture	
460-266877-2	SB-01_31-33_20221005	Total/NA	Solid	Moisture	
460-266974-A-7 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 871259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-2	SB-05_29-31_20221004	Total/NA	Solid	7196A	871123
460-266826-3	SB-06_0-2_20221004	Total/NA	Solid	7196A	871123
460-266826-4	SB-06_29-31_20221004	Total/NA	Solid	7196A	871123
MB 460-871123/1-A	Method Blank	Total/NA	Solid	7196A	871123
LCSI 460-871123/3-A	Lab Control Sample	Total/NA	Solid	7196A	871123
LCSSRM 460-871123/2-A	Lab Control Sample	Total/NA	Solid	7196A	871123
460-266802-E-4-Q MSS	Matrix Spike	Total/NA	Solid	7196A	871123
460-266802-E-4-R MSI	Matrix Spike	Total/NA	Solid	7196A	871123
460-266802-E-4-P DU	Duplicate	Total/NA	Solid	7196A	871123

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-02_0-2_20221003
Date Collected: 10/03/22 09:10
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-1
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:27
Total/NA	Analysis	8260D		1	870199	MZS	EET EDI	10/05/22 17:15
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 06:08
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:18
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 10:55
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:13
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:38
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 13:40

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-02_31-33_20221003
Date Collected: 10/03/22 09:15
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-2
Matrix: Solid
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:28
Total/NA	Analysis	8260D		1	870199	MZS	EET EDI	10/05/22 17:39
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 06:31
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:30
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 11:12
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:16

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-02_31-33_20221003
Lab Sample ID: 460-266752-2
Date Collected: 10/03/22 09:15
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:40
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-03_0-2_20221003
Lab Sample ID: 460-266752-3
Date Collected: 10/03/22 15:00
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-03_0-2_20221003
Lab Sample ID: 460-266752-3
Date Collected: 10/03/22 15:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:28
Total/NA	Analysis	8260D		1	870199	MZS	EET EDI	10/05/22 18:05
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 06:54
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:43
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 11:29
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:18
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:42
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-03_31-33_20221003
Lab Sample ID: 460-266752-4
Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-03_31-33_20221003
Lab Sample ID: 460-266752-4
Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:29
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 01:11

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Client Sample ID: SB-03_31-33_20221003
Lab Sample ID: 460-266752-4
Date Collected: 10/03/22 15:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 05:22
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 07:55
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 11:45
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:21
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:44
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-04_0-2_20221003
Lab Sample ID: 460-266752-5
Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-04_0-2_20221003
Lab Sample ID: 460-266752-5
Date Collected: 10/03/22 13:00
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:29
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 01:35
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 07:17
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:07
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:02
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:23
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:46
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-04_32-34_20221003
Lab Sample ID: 460-266752-6
Date Collected: 10/03/22 13:05
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-04_32-34_20221003
Lab Sample ID: 460-266752-6
Date Collected: 10/03/22 13:05
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:30
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 01:59
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 07:40
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:19
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:19
Total/NA	Prep	3050B			870217	FBT	EET EDI	10/05/22 09:10
Total/NA	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 19:25
Total/NA	Prep	7471B			870160	TJS	EET EDI	10/05/22 00:06
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 04:47
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-07_0-2_20221003
Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-07_0-2_20221003
Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:30
Total/NA	Analysis	8260D		1	870277	AAT	EET EDI	10/06/22 02:24
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 08:03
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:32
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:36
Total/NA	Prep	3050B			870218	FBT	EET EDI	10/05/22 09:17
Total/NA	Analysis	6020B		1	870468	MDC	EET EDI	10/07/22 01:21

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-07_0-2_20221003

Lab Sample ID: 460-266752-7
Date Collected: 10/03/22 10:40
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			870161	TJS	EET EDI	10/05/22 00:21
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 05:06
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870220	RLL	EET EDI	10/05/22 09:25

Client Sample ID: SB-07_32-34_20221003

Lab Sample ID: 460-266752-8
Date Collected: 10/03/22 10:45
Matrix: Solid
Date Received: 10/03/22 19:00
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870066	EMM	EET EDI	10/04/22 13:31
Total/NA	Analysis	8260D		1	870379	AAT	EET EDI	10/06/22 16:35
Total/NA	Prep	3546			870137	ARA	EET EDI	10/04/22 18:31
Total/NA	Analysis	8270E		1	870154	MME	EET EDI	10/05/22 05:45
Total/NA	Prep	3546			870105	ARA	EET EDI	10/04/22 16:51
Total/NA	Analysis	8081B		1	870169	FAM	EET EDI	10/05/22 08:44
Total/NA	Prep	3546			870100	ARA	EET EDI	10/04/22 16:32
Total/NA	Analysis	8082A		1	870183	JHP	EET EDI	10/05/22 12:52
Total/NA	Prep	3050B			870218	FBT	EET EDI	10/05/22 09:17
Total/NA	Analysis	6020B		1	870468	MDC	EET EDI	10/07/22 01:29
Total/NA	Prep	7471B			870161	TJS	EET EDI	10/05/22 00:21
Total/NA	Analysis	7471B		1	870198	TJS	EET EDI	10/05/22 05:07
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:07
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 01:54

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-05_0-2_20221004

Lab Sample ID: 460-266826-1
Date Collected: 10/04/22 10:30
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 04:21
Total/NA	Prep	3546	DL		870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E	DL	10	870349	MME	EET EDI	10/06/22 08:50
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:09
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 11:18
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:47
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 04:21
Total/NA	Prep	3060A			871024	RAK	EET EDI	10/10/22 08:32 - 10/10/22 11:00 [1]
Total/NA	Analysis	7196A		1	871102	RAK	EET EDI	10/10/22 14:40

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-05_29-31_20221004

Lab Sample ID: 460-266826-2
Date Collected: 10/04/22 10:35
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:09
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 02:19
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 04:38
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:21
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 11:38
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:21
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 03:57
Total/NA	Prep	3060A			871123	VBG	EET EDI	10/10/22 17:57 - 10/10/22 20:10 [1]
Total/NA	Analysis	7196A		1	871259	GSM	EET EDI	10/11/22 10:10

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-06_0-2_20221004
Lab Sample ID: 460-266826-3
Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-06_0-2_20221004
Lab Sample ID: 460-266826-3
Date Collected: 10/04/22 14:00
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:10
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 02:43
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 03:47
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:34
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 11:57
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:50
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 04:23
Total/NA	Prep	3060A			871123	VBG	EET EDI	10/10/22 17:57 - 10/10/22 20:10 [1]
Total/NA	Analysis	7196A		1	871259	GSM	EET EDI	10/11/22 10:10

Client Sample ID: SB-06_29-31_20221004
Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	870340	CJC	EET EDI	10/05/22 21:11

Client Sample ID: SB-06_29-31_20221004
Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870338	JJC	EET EDI	10/05/22 20:12
Total/NA	Analysis	8260D		1	870501	AAT	EET EDI	10/07/22 03:08
Total/NA	Prep	3546			870226	OTS	EET EDI	10/05/22 10:12
Total/NA	Analysis	8270E		1	870313	MME	EET EDI	10/06/22 04:04
Total/NA	Prep	3546			870258	FHW	EET EDI	10/05/22 12:37
Total/NA	Analysis	8081B		1	870367	FAM	EET EDI	10/06/22 07:46
Total/NA	Prep	3546			870255	FHW	EET EDI	10/05/22 12:32
Total/NA	Analysis	8082A		1	870434	JHP	EET EDI	10/06/22 12:17
Total/NA	Prep	3050B			870410	FBT	EET EDI	10/06/22 08:43
Total/NA	Analysis	6020B		1	870666	MDC	EET EDI	10/07/22 21:52

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Client Sample ID: SB-06_29-31_20221004
Lab Sample ID: 460-266826-4
Date Collected: 10/04/22 14:05
Matrix: Solid
Date Received: 10/04/22 18:30
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			870359	TJS	EET EDI	10/06/22 00:22
Total/NA	Analysis	7471B		1	870402	TJS	EET EDI	10/06/22 04:25
Total/NA	Prep	3060A			871123	VBG	EET EDI	10/10/22 17:57 - 10/10/22 20:10 [1]
Total/NA	Analysis	7196A		1	871259	GSM	EET EDI	10/11/22 10:10

Client Sample ID: SB-01_0-2_20221005
Lab Sample ID: 460-266877-1
Date Collected: 10/05/22 08:10
Matrix: Solid
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	871138	CJC	EET EDI	10/10/22 19:01

Client Sample ID: SB-01_0-2_20221005
Lab Sample ID: 460-266877-1
Date Collected: 10/05/22 08:10
Matrix: Solid
Date Received: 10/05/22 18:00
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870524	JJC	EET EDI	10/06/22 16:35
Total/NA	Analysis	8260D		1	870690	AAT	EET EDI	10/08/22 02:26
Total/NA	Prep	3546			870659	NAR	EET EDI	10/07/22 10:42
Total/NA	Analysis	8270E		1	870755	YAH	EET EDI	10/08/22 08:36
Total/NA	Prep	3546	DL		870659	NAR	EET EDI	10/07/22 10:42
Total/NA	Analysis	8270E	DL	5	870853	YAH	EET EDI	10/09/22 05:30
Total/NA	Prep	3546			870672	FHW	EET EDI	10/07/22 11:51
Total/NA	Analysis	8081B		1	871004	SAK	EET EDI	10/10/22 09:14
Total/NA	Prep	3546			870673	FHW	EET EDI	10/07/22 11:56
Total/NA	Analysis	8082A		1	871035	JHP	EET EDI	10/10/22 11:08
Total/NA	Prep	3050B			870740	GAE	EET EDI	10/07/22 19:45
Total/NA	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 14:19
Total/NA	Prep	7471B			870977	TJS	EET EDI	10/10/22 00:23
Total/NA	Analysis	7471B		1	871013	TJS	EET EDI	10/10/22 03:47
Total/NA	Prep	3060A			871018	GSM	EET EDI	10/10/22 08:35 - 10/10/22 09:35 [1]
Total/NA	Analysis	7196A		1	871076	GSM	EET EDI	10/10/22 11:45

Client Sample ID: SB-01_31-33_20221005
Lab Sample ID: 460-266877-2
Date Collected: 10/05/22 08:15
Matrix: Solid
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	871138	CJC	EET EDI	10/10/22 19:01

Lab Chronicle

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Client Sample ID: SB-01_31-33_20221005
Date Collected: 10/05/22 08:15
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-2
Matrix: Solid
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			870524	JJC	EET EDI	10/06/22 16:37
Total/NA	Analysis	8260D		1	870776	AAT	EET EDI	10/08/22 11:50
Total/NA	Prep	3546			870659	NAR	EET EDI	10/07/22 10:42
Total/NA	Analysis	8270E		1	870755	YAH	EET EDI	10/08/22 06:45
Total/NA	Prep	3546			870672	FHW	EET EDI	10/07/22 11:51
Total/NA	Analysis	8081B		1	871004	SAK	EET EDI	10/10/22 09:26
Total/NA	Prep	3546			870673	FHW	EET EDI	10/07/22 11:56
Total/NA	Analysis	8082A		1	871035	JHP	EET EDI	10/10/22 11:25
Total/NA	Prep	3050B			870740	GAE	EET EDI	10/07/22 19:45
Total/NA	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 14:21
Total/NA	Prep	7471B			870977	TJS	EET EDI	10/10/22 00:23
Total/NA	Analysis	7471B		1	871013	TJS	EET EDI	10/10/22 03:54
Total/NA	Prep	3060A			871018	GSM	EET EDI	10/10/22 08:35 - 10/10/22 09:35 [1]
Total/NA	Analysis	7196A		1	871076	GSM	EET EDI	10/10/22 11:45

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-266752-1
Project/Site: Ikos Senior Living

Laboratory: Eurofins Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270E	3546	Solid	3 & 4 Methylphenol
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
7196A	Chromium, Hexavalent	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-266752-1	SB-02_0-2_20221003	Solid	10/03/22 09:10	10/03/22 19:00
460-266752-2	SB-02_31-33_20221003	Solid	10/03/22 09:15	10/03/22 19:00
460-266752-3	SB-03_0-2_20221003	Solid	10/03/22 15:00	10/03/22 19:00
460-266752-4	SB-03_31-33_20221003	Solid	10/03/22 15:05	10/03/22 19:00
460-266752-5	SB-04_0-2_20221003	Solid	10/03/22 13:00	10/03/22 19:00
460-266752-6	SB-04_32-34_20221003	Solid	10/03/22 13:05	10/03/22 19:00
460-266752-7	SB-07_0-2_20221003	Solid	10/03/22 10:40	10/03/22 19:00
460-266752-8	SB-07_32-34_20221003	Solid	10/03/22 10:45	10/03/22 19:00
460-266826-1	SB-05_0-2_20221004	Solid	10/04/22 10:30	10/04/22 18:30
460-266826-2	SB-05_29-31_20221004	Solid	10/04/22 10:35	10/04/22 18:30
460-266826-3	SB-06_0-2_20221004	Solid	10/04/22 14:00	10/04/22 18:30
460-266826-4	SB-06_29-31_20221004	Solid	10/04/22 14:05	10/04/22 18:30
460-266877-1	SB-01_0-2_20221005	Solid	10/05/22 08:10	10/05/22 18:00
460-266877-2	SB-01_31-33_20221005	Solid	10/05/22 08:15	10/05/22 18:00

Chain of Custody Record

611419

eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

266877

TAL-8210

Client Contact	Project Manager: Alyssa Brzychkowski	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 1 of 2 COCs
Company Name: AKRF, Inc.	Tel/Email: abrzychkowski@akrf.com	Lab Contact: M. Thurs	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: New York, NY 10016	☐ CALENDAR DAYS ☒ WORKING DAYS			Walk-in Client:
Phone: 646 388 9533	TAT if different from Below Standard			Lab Sampling:
Fax:	☐ 2 weeks			Job / SDG No.:
Project Name: IHOP	☒ 1 week			
Site: Astoria Queens, NY	☐ 2 days			
PO # 216174	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260-TCL/Add 2 VOCs	8082A - PCBs	7471B - mercury	6010B - TAL metals	8270E - TCL/Add 2 SVOCs	+1,4-Dioxane	7196A - Hex Chrom 3196	Sample Specific Notes:
SB-01_0-2_20221005	10/5/22	0810	G	S	6	N	N	X	X	X	X	X	X	X	1
SB-01_31-33_20221005	↓	0815	G	S	6	N	N	X	X	X	X	X	X	X	2

SHORT HOLD

2K 22 2C

460-266877 Chain of Custody

Page 217 of 222

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Category A Deliverable - EQuIS EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Tom Gordon	AKRF, Inc	10/5/2022	Received by:	FedEx	10/6/22 1145
Relinquished by:		10/6/1000	Received by:	FedEx	10/7/22 1200
Relinquished by:		10/7/22 1500	Received in Laboratory by:	TAL	10/8/22 1800

10/11/2022

26284 EC 232

Chain of Custody Record

611418

eurofins | Environment Testing America

266817

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Asya Rychkov	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 8 of 2 COCs
Company Name: AKRF Inc.	Tel/Email: arychkov@akrf.com	Lab Contact: M. Hua	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: New York, NY 10016	☐ CALENDAR DAYS ☒ WORKING DAYS			Walk-in Client:
Phone: 646-388-9533	TAT if different from Below: Standard			Lab Sampling:
Fax:	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Job / SDG No.:
Project Name: Illos				
Site: Astoria, Queens, NY				
P O # 210124				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8081B - TCL/Nat 375 Auto	625.1A - DCB	8270E - TCL/Nat 375 ONLY + 1,4-Dioxane	Geo 2013 - TAL Metals	7470A - Mercury	Geo 2013 - Dissolved TAL EE	7470A - Dissolved Merc EE	8260D - TCL/Nat 375 VOA	Sample Specific Notes:
TW-01_GW22Low	10/5/22	1030	G	GW	11	Y	N	X	X	X	X	X	X	X	X	3

12 Z 22 C

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Category A Deliverables / EQUIS EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____
Relinquished by: Tom Gordon	Company: AKRF Inc	Date/Time: 10/5/22	Received by:	Company:	Date/Time: 10/6/22 1045
Relinquished by:	Company:	Date/Time: 10/5/22	Received by:	Company:	Date/Time: 10/6/22 1320
Relinquished by:	Company:	Date/Time: 10/6/22 1800	Received in Laboratory by:	Company: TAL	Date/Time: 10/6/22 1800

26 ZPQ 26 Z209

10/13/2022

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 266877

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.6 °C	2.6 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
3				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: [signature] Date: 10/5/22

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-1

Login Number: 266752
List Number: 1
Creator: Narinkhum, Nudjarin 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-1

Login Number: 266826
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-1

Login Number: 266877
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-266752-2
Client Project/Site: Ikos Senior Living

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco

Melissa Haas

Authorized for release by:
10/14/2022 12:42:30 PM

Melissa Haas, Senior Project Manager
(203)308-0880
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LINKS

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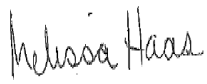
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/14/2022 12:42:30 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	Surrogate is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-266752-2

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Ikos Senior Living

Report Number: 460-266752-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/3/2022 7:00 PM, 10/4/2022 6:30 PM and 10/5/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 2.6º C, 2.6º C and 3.3º C.

Receipt Exceptions

COC requests FF dissolved metals. We received two containers with nitric acid, but it is not specified on the labels which is dissolved. I labeled one that seems to be dissolved compared to the other one.

The client requested that the soils and ground waters collected for this project be split into 2 separate COCs.

The lab did not received filtered volume for field-filtered metals for the following sample: TW-01_20221005 (460-266877-3). Neither of the two metals bottles received were marked as dissolved metals. The client instructed the lab to randomly choose one bottle to filtered for dissolved metals.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6), TW-02_20221003 (460-266752-9) and TB_20221003 (460-266752-10) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 10/07/2022 and 10/10/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870628 was outside the method criteria for the following analyte(s): Bromomethane (biased high); 1,2-Dichloropropane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Dichlorodifluoromethane and Methyl acetate (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 460-266752-2 (Continued)

Laboratory: Eurofins Edison (Continued)

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-870628 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870989 was outside the method criteria for the following analyte(s): Dichlorodifluoromethane and 1,1,2-Trichloro-1,2,2-trifluoroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Methods 8270E. The samples were prepared on 10/05/2022, 10/06/2022 and 10/07/2022 and analyzed on 10/06/2022, 10/07/2022 and 10/08/2022.

The continuing calibration verification (CCV) analyzed in batch 460-870337 was outside the method criteria for the following analyte(s): 1,4-Dioxane, 2,2'-oxybis[1-chloropropane], 2,4-Dinitrotoluene, Atrazine, Benzaldehyde, Caprolactam and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870235 and analytical batch 460-870337 recovered outside control limits for the following analytes: Atrazine. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870558 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 2,2'-oxybis[1-chloropropane], 3,3'-Dichlorobenzidine, Benzaldehyde, Dibenz(a,h)anthracene, Hexachlorocyclopentadiene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870445 and analytical batch 460-870558 recovered outside control limits for the following analytes: Atrazine. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-870554 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2,3,4,6-Tetrachlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline, 4-Nitrophenol, Benzaldehyde, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870657 and analytical batch 460-870554 recovered outside control limits for the following analytes: Atrazine. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and

Job ID: 460-266752-2 (Continued)

Laboratory: Eurofins Edison (Continued)

TW-02_20221003 (460-266752-9) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 10/05/2022 and 10/07/2022 and analyzed on 10/06/2022 and 10/10/2022.

The DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: TW-03_20221004 (460-266826-5), (LCS 460-870354/2-A), (LCSD 460-870354/3-A) and (MB 460-870354/1-A). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-870354 and analytical batch 460-870370 recovered outside control limits for the following analytes: Endrin ketone n the secondary column. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The DCB Decachlorobiphenyl surrogate recovery for the CCV was outside acceptance limits (high biased) on the confirmation column : The recovery is within acceptance limits on the other column, therefore the data have been reported.(CCVIS 460-870370/3).

The Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: TW-01_20221005 (460-266877-3). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The continuing calibration verification (CCV) associated with batch 460-871010 recovered outside acceptance criteria, low biased, for Endrin on the secondary column but within control limits on the primary column. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No other difficulties were encountered during the pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 10/05/2022 and 10/07/2022 and analyzed on 10/06/2022 and 10/10/2022.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS - DISSOLVED)(ICP/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for Metals - Dissolved)(ICP/MS) in accordance with EPA SW-846 Method 6020B - Dissolved. The samples were prepared on 10/05/2022 and 10/10/2022 and analyzed on 10/05/2022, 10/06/2022, 10/10/2022 and 10/11/2022.

Sodium failed the recovery criteria low for the MS of sample 460-266466-1 in batch 460-871758. Calcium, Magnesium, Potassium and Sodium failed the recovery criteria high.

Sodium failed the recovery criteria low for the MS of sample TW-02_20221003MS (460-266752-9) in batch 460-870271. Calcium failed the recovery criteria high.
No other difficulties were encountered during the metals, diss. analysis.

All other quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared on 10/06/2022 and analyzed on 10/09/2022.

Job ID: 460-266752-2 (Continued)

Laboratory: Eurofins Edison (Continued)

Sample TW-01_20221005 (460-266877-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

MERCURY - DISSOLVED

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for mercury - Dissolved in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/07/2022 and 10/11/2022.

No difficulties were encountered during the dissolved Hg analysis.

All quality control parameters were within the acceptance limits.

MERCURY

Samples TW-01_20221005 (460-266877-3), TW-03_20221004 (460-266826-5), TW-04_20221004 (460-266826-6) and TW-02_20221003 (460-266752-9) were analyzed for mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/05/2022, 10/07/2022 and 10/11/2022.

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: TW-01_20221005 (460-266877-3). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. The sample was preserved on 10/10/22 at 10:00 AM with concentrated nitric acid.

No other difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-02_20221003 — Lab Sample ID: 460-266752-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.4		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	6.7		1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	19		1.0	0.25	ug/L	1		8260D	Total/NA
Caprolactam - DL	98		50	11	ug/L	5		8270E	Total/NA
Aluminum	21.1	J	40.0	19.5	ug/L	1		6020B	Total/NA
Barium	103		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	88000		500	53.6	ug/L	1		6020B	Total/NA
Cobalt	1.7	J	4.0	0.71	ug/L	1		6020B	Total/NA
Magnesium	33700		200	46.9	ug/L	1		6020B	Total/NA
Manganese	439		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	4.3		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	3480		200	112	ug/L	1		6020B	Total/NA
Selenium	3.1		2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	140000		500	163	ug/L	1		6020B	Total/NA
Barium	107		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	88300		500	53.6	ug/L	1		6020B	Dissolved
Cobalt	1.7	J	4.0	0.71	ug/L	1		6020B	Dissolved
Magnesium	34500		200	46.9	ug/L	1		6020B	Dissolved
Manganese	450		8.0	1.5	ug/L	1		6020B	Dissolved
Nickel	3.9	J	4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	3590		200	112	ug/L	1		6020B	Dissolved
Selenium	2.9		2.5	0.59	ug/L	1		6020B	Dissolved
Sodium	141000		500	163	ug/L	1		6020B	Dissolved

Client Sample ID: TB_20221003 — Lab Sample ID: 460-266752-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.32	J	1.0	0.32	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	0.47	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: TW-03_20221004 — Lab Sample ID: 460-266826-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.7		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.41	J	1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	100		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.69	J	1.0	0.31	ug/L	1		8260D	Total/NA
Aluminum	771		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	140		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	116000		500	53.6	ug/L	1		6020B	Total/NA
Chromium	5.5		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	1.6	J	4.0	0.71	ug/L	1		6020B	Total/NA
Copper	3.7	J	4.0	2.5	ug/L	1		6020B	Total/NA
Iron	1660		120	58.2	ug/L	1		6020B	Total/NA
Lead	2.7		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	47500		200	46.9	ug/L	1		6020B	Total/NA
Manganese	261		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	4.3		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	5380		200	112	ug/L	1		6020B	Total/NA
Selenium	2.8		2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	128000		500	163	ug/L	1		6020B	Total/NA
Vanadium	3.2	J	4.0	0.68	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-03_20221004 (Continued)

Lab Sample ID: 460-266826-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	6.7	J	16.0	6.5	ug/L	1		6020B	Total/NA
Aluminum	233		40.0	19.5	ug/L	1		6020B	Dissolved
Barium	125		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	106000		500	53.6	ug/L	1		6020B	Dissolved
Cobalt	1.1	J	4.0	0.71	ug/L	1		6020B	Dissolved
Copper	2.5	J	4.0	2.5	ug/L	1		6020B	Dissolved
Iron	492		120	58.2	ug/L	1		6020B	Dissolved
Lead	3.8		1.2	0.84	ug/L	1		6020B	Dissolved
Magnesium	45900		200	46.9	ug/L	1		6020B	Dissolved
Manganese	216		8.0	1.5	ug/L	1		6020B	Dissolved
Nickel	2.4	J	4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	4950		200	112	ug/L	1		6020B	Dissolved
Selenium	2.2	J	2.5	0.59	ug/L	1		6020B	Dissolved
Sodium	127000		500	163	ug/L	1		6020B	Dissolved
Vanadium	2.0	J	4.0	0.68	ug/L	1		6020B	Dissolved

Client Sample ID: TW-04_20221004

Lab Sample ID: 460-266826-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	9.2		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.3		1.0	0.22	ug/L	1		8260D	Total/NA
Dichlorobromomethane	0.50	J	1.0	0.34	ug/L	1		8260D	Total/NA
Tetrachloroethene	330		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.9		1.0	0.31	ug/L	1		8260D	Total/NA
Aluminum	2320		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	171		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	0.16	J	0.80	0.13	ug/L	1		6020B	Total/NA
Calcium	88700		500	53.6	ug/L	1		6020B	Total/NA
Chromium	14.6		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	3.3	J	4.0	0.71	ug/L	1		6020B	Total/NA
Copper	8.6		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	4430		120	58.2	ug/L	1		6020B	Total/NA
Lead	1.6		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	33100		200	46.9	ug/L	1		6020B	Total/NA
Manganese	1090		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	11.7		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	8380		200	112	ug/L	1		6020B	Total/NA
Selenium	0.78	J	2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	109000		500	163	ug/L	1		6020B	Total/NA
Vanadium	7.1		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	11.9	J	16.0	6.5	ug/L	1		6020B	Total/NA
Aluminum	797		40.0	19.5	ug/L	1		6020B	Dissolved
Barium	147		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	82600		500	53.6	ug/L	1		6020B	Dissolved
Chromium	3.9	J	4.0	2.5	ug/L	1		6020B	Dissolved
Cobalt	2.5	J	4.0	0.71	ug/L	1		6020B	Dissolved
Copper	4.9		4.0	2.5	ug/L	1		6020B	Dissolved
Iron	1630		120	58.2	ug/L	1		6020B	Dissolved
Lead	1.1	J	1.2	0.84	ug/L	1		6020B	Dissolved
Magnesium	30400		200	46.9	ug/L	1		6020B	Dissolved
Manganese	1020		8.0	1.5	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-04_20221004 (Continued)

Lab Sample ID: 460-266826-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	4.9		4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	7610		200	112	ug/L	1		6020B	Dissolved
Selenium	0.85	J	2.5	0.59	ug/L	1		6020B	Dissolved
Sodium	107000		500	163	ug/L	1		6020B	Dissolved
Vanadium	2.8	J	4.0	0.68	ug/L	1		6020B	Dissolved

Client Sample ID: TW-01_20221005

Lab Sample ID: 460-266877-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	9.4		5.0	1.9	ug/L	1		8260D	Total/NA
Acetone	50		5.0	4.4	ug/L	1		8260D	Total/NA
Benzene	0.30	J	1.0	0.20	ug/L	1		8260D	Total/NA
Chloroform	1.6		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	100		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	2.1		1.0	0.31	ug/L	1		8260D	Total/NA
Benzo[a]anthracene	2.1		1.0	0.59	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	1.6		1.0	0.41	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	2.2		2.0	0.68	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	1.7	J	10	0.70	ug/L	1		8270E	Total/NA
Bis(2-ethylhexyl) phthalate	6.2		2.0	0.80	ug/L	1		8270E	Total/NA
Chrysene	2.0		2.0	0.91	ug/L	1		8270E	Total/NA
Fluoranthene	4.0	J	10	0.84	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.6	J	2.0	0.94	ug/L	1		8270E	Total/NA
Phenanthrene	2.6	J	10	1.3	ug/L	1		8270E	Total/NA
Pyrene	3.4	J	10	1.6	ug/L	1		8270E	Total/NA
Aluminum	294000		200	97.5	ug/L	5		6020B	Total/NA
Antimony	1.9	J	2.0	0.76	ug/L	1		6020B	Total/NA
Arsenic	63.9		2.0	0.89	ug/L	1		6020B	Total/NA
Barium	3540		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	14.2		0.80	0.13	ug/L	1		6020B	Total/NA
Cadmium	5.0		2.0	0.39	ug/L	1		6020B	Total/NA
Calcium	913000		2500	268	ug/L	5		6020B	Total/NA
Chromium	3390		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	325		4.0	0.71	ug/L	1		6020B	Total/NA
Copper	1340		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	971000		600	291	ug/L	5		6020B	Total/NA
Lead	857		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	355000		200	46.9	ug/L	1		6020B	Total/NA
Manganese	24600		40.0	7.4	ug/L	5		6020B	Total/NA
Nickel	922		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	66400		200	112	ug/L	1		6020B	Total/NA
Selenium	1.5	J	2.5	0.59	ug/L	1		6020B	Total/NA
Silver	2.5		2.0	0.29	ug/L	1		6020B	Total/NA
Sodium	74600		500	163	ug/L	1		6020B	Total/NA
Thallium	5.1		0.80	0.21	ug/L	1		6020B	Total/NA
Vanadium	707		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	2640		16.0	6.5	ug/L	1		6020B	Total/NA
Antimony	1.9	J	2.0	0.76	ug/L	1		6020B	Dissolved
Barium	16.3		4.0	0.91	ug/L	1		6020B	Dissolved
Calcium	19500		500	53.6	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-01_20221005 (Continued)
Lab Sample ID: 460-266877-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.91	J	4.0	0.71	ug/L	1		6020B	Dissolved
Magnesium	4050		200	46.9	ug/L	1		6020B	Dissolved
Manganese	185		8.0	1.5	ug/L	1		6020B	Dissolved
Nickel	9.9		4.0	0.91	ug/L	1		6020B	Dissolved
Potassium	4310		200	112	ug/L	1		6020B	Dissolved
Sodium	35300		500	163	ug/L	1		6020B	Dissolved
Mercury	1.7		0.20	0.091	ug/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-02_20221003
Date Collected: 10/03/22 11:30
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 15:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 15:12	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 15:12	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 15:12	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 15:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 15:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 15:12	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 15:12	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 15:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:12	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 15:12	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 15:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 15:12	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 15:12	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 15:12	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 15:12	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 15:12	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 15:12	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 15:12	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 15:12	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 15:12	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 15:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
Chloroform	2.4		1.0	0.33	ug/L			10/07/22 15:12	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 15:12	1
cis-1,2-Dichloroethene	6.7		1.0	0.22	ug/L			10/07/22 15:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:12	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:12	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 15:12	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 15:12	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 15:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 15:12	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 15:12	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 15:12	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 15:12	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:12	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 15:12	1

Client Sample ID: TW-02_20221003
Date Collected: 10/03/22 11:30
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:12	1
Tetrachloroethene	19		1.0	0.25	ug/L			10/07/22 15:12	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 15:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 15:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:12	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/07/22 15:12	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:12	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 15:12	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*		*10/07/22 15:12*	*1*
4-Bromofluorobenzene	*114*		*76 - 120*		*10/07/22 15:12*	*1*
Dibromofluoromethane (Surr)	*113*		*77 - 124*		*10/07/22 15:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/07/22 15:12*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/05/22 10:48	10/06/22 05:09	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Methylphenol	10	U	10	0.67	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/05/22 10:48	10/06/22 05:09	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/05/22 10:48	10/06/22 05:09	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/05/22 10:48	10/06/22 05:09	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/06/22 05:09	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Methylphenol	10	U	10	0.65	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/05/22 10:48	10/06/22 05:09	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/05/22 10:48	10/06/22 05:09	1
Acenaphthene	10	U	10	1.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
Acenaphthylene	10	U	10	0.82	ug/L		10/05/22 10:48	10/06/22 05:09	1
Acetophenone	10	U	10	2.3	ug/L		10/05/22 10:48	10/06/22 05:09	1

Client Sample ID: TW-02_20221003
Date Collected: 10/03/22 11:30
Date Received: 10/03/22 19:00

Lab Sample ID: 460-266752-9
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	10	U	10	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzaldehyde	10	U	10	2.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/05/22 10:48	10/06/22 05:09	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/05/22 10:48	10/06/22 05:09	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/05/22 10:48	10/06/22 05:09	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/05/22 10:48	10/06/22 05:09	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/06/22 05:09	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/05/22 10:48	10/06/22 05:09	1
Carbazole	10	U	10	0.68	ug/L		10/05/22 10:48	10/06/22 05:09	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/05/22 10:48	10/06/22 05:09	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/05/22 10:48	10/06/22 05:09	1
Dibenzofuran	10	U	10	1.1	ug/L		10/05/22 10:48	10/06/22 05:09	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/05/22 10:48	10/06/22 05:09	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/05/22 10:48	10/06/22 05:09	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/05/22 10:48	10/06/22 05:09	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/05/22 10:48	10/06/22 05:09	1
Fluoranthene	10	U	10	0.84	ug/L		10/05/22 10:48	10/06/22 05:09	1
Fluorene	10	U	10	0.91	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/05/22 10:48	10/06/22 05:09	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/06/22 05:09	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/05/22 10:48	10/06/22 05:09	1
Isophorone	10	U	10	0.80	ug/L		10/05/22 10:48	10/06/22 05:09	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/05/22 10:48	10/06/22 05:09	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/05/22 10:48	10/06/22 05:09	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/05/22 10:48	10/06/22 05:09	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/05/22 10:48	10/06/22 05:09	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/05/22 10:48	10/06/22 05:09	1
Phenanthrene	10	U	10	1.3	ug/L		10/05/22 10:48	10/06/22 05:09	1
Phenol	10	U	10	0.29	ug/L		10/05/22 10:48	10/06/22 05:09	1
Pyrene	10	U	10	1.6	ug/L		10/05/22 10:48	10/06/22 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*124*		*37 - 150*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
2-Fluorobiphenyl	*104*		*46 - 139*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
2-Fluorophenol (Surr)	*51*		*19 - 80*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
Nitrobenzene-d5 (Surr)	*97*		*52 - 137*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
Phenol-d5 (Surr)	*34*		*10 - 56*	*10/05/22 10:48*	*10/06/22 05:09*	*1*
Terphenyl-d14 (Surr)	*82*		*22 - 150*	*10/05/22 10:48*	*10/06/22 05:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	98		50	11	ug/L		10/05/22 10:48	10/06/22 07:37	5

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Lab Sample ID: 460-266752-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*81*		*37 - 150*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
2-Fluorobiphenyl	*85*		*46 - 139*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
2-Fluorophenol (Surr)	*39*		*19 - 80*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
Nitrobenzene-d5 (Surr)	*79*		*52 - 137*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
Phenol-d5 (Surr)	*26*		*10 - 56*	*10/05/22 10:48*	*10/06/22 07:37*	*5*
Terphenyl-d14 (Surr)	*70*		*22 - 150*	*10/05/22 10:48*	*10/06/22 07:37*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:27	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:27	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:27	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 07:27	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 07:27	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 07:27	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:27	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:27	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:27	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:27	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 07:27	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:27	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:27	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:27	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*108*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:27*	*1*
DCB Decachlorobiphenyl	*76*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:27*	*1*
Tetrachloro-m-xylene	*74*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:27*	*1*
Tetrachloro-m-xylene	*64*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:27*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:30	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:30	1

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Lab Sample ID: 460-266752-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:30*	*1*
DCB Decachlorobiphenyl	*70*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:30*	*1*
Tetrachloro-m-xylene	*62*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:30*	*1*
Tetrachloro-m-xylene	*57*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:30*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21.1**	**J**	40.0	19.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:29	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:29	1
Barium	**103**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:29	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:29	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:29	1
Calcium	**88000**		500	53.6	ug/L		10/06/22 19:16	10/09/22 14:29	1
Chromium	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Cobalt	**1.7**	**J**	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:29	1
Copper	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Iron	120	U	120	58.2	ug/L		10/06/22 19:16	10/09/22 14:29	1
Lead	1.2	U	1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:29	1
Magnesium	**33700**		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:29	1
Manganese	**439**		8.0	1.5	ug/L		10/06/22 19:16	10/09/22 14:29	1
Nickel	**4.3**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:29	1
Potassium	**3480**		200	112	ug/L		10/06/22 19:16	10/09/22 14:29	1
Selenium	**3.1**		2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:29	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:29	1
Sodium	**140000**		500	163	ug/L		10/06/22 19:16	10/09/22 14:29	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:29	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:29	1
Zinc	16.0	U	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/05/22 21:01	10/06/22 20:55	1
Antimony	2.0	U	2.0	0.76	ug/L		10/05/22 21:01	10/05/22 23:30	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/05/22 21:01	10/05/22 23:30	1
Barium	**107**		4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:30	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/05/22 21:01	10/05/22 23:30	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/05/22 21:01	10/05/22 23:30	1
Calcium	**88300**		500	53.6	ug/L		10/05/22 21:01	10/05/22 23:30	1
Chromium	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:30	1
Cobalt	**1.7**	**J**	4.0	0.71	ug/L		10/05/22 21:01	10/05/22 23:30	1
Copper	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:30	1
Iron	120	U	120	58.2	ug/L		10/05/22 21:01	10/05/22 23:30	1
Lead	1.2	U	1.2	0.84	ug/L		10/05/22 21:01	10/06/22 01:45	1
Magnesium	**34500**		200	46.9	ug/L		10/05/22 21:01	10/05/22 23:30	1
Manganese	**450**		8.0	1.5	ug/L		10/05/22 21:01	10/05/22 23:30	1
Nickel	**3.9**	**J**	4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:30	1
Potassium	**3590**		200	112	ug/L		10/05/22 21:01	10/05/22 23:30	1
Selenium	**2.9**		2.5	0.59	ug/L		10/05/22 21:01	10/05/22 23:30	1
Silver	2.0	U	2.0	0.29	ug/L		10/05/22 21:01	10/05/22 23:30	1

Client Sample ID: TW-02_20221003

Lab Sample ID: 460-266752-9
Matrix: Water
Date Collected: 10/03/22 11:30
Date Received: 10/03/22 19:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	141000		500	163	ug/L		10/05/22 21:01	10/05/22 23:30	1
Thallium	0.80	U	0.80	0.21	ug/L		10/05/22 21:01	10/05/22 23:30	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/05/22 21:01	10/05/22 23:30	1
Zinc	16.0	U	16.0	6.5	ug/L		10/05/22 21:01	10/05/22 23:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/05/22 10:46	10/05/22 14:07	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 15:41	1

Client Sample ID: TB_20221003

Lab Sample ID: 460-266752-10
Matrix: Water
Date Collected: 10/03/22 14:30
Date Received: 10/03/22 19:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 15:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 15:33	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 15:33	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 15:33	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 15:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 15:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 15:33	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 15:33	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 15:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:33	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 15:33	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 15:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 15:33	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 15:33	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 15:33	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 15:33	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 15:33	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 15:33	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 15:33	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 15:33	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 15:33	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 15:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/07/22 15:33	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 15:33	1

Client Sample ID: TB_20221003

Lab Sample ID: 460-266752-10

Date Collected: 10/03/22 14:30

Matrix: Water

Date Received: 10/03/22 19:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:33	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 15:33	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 15:33	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 15:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 15:33	1
Methylene Chloride	0.32	J	1.0	0.32	ug/L			10/07/22 15:33	1
m-Xylene & p-Xylene	0.47	J	1.0	0.30	ug/L			10/07/22 15:33	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 15:33	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:33	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 15:33	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:33	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/07/22 15:33	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 15:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 15:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:33	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/07/22 15:33	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:33	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 15:33	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 128*		*10/07/22 15:33*	*1*
4-Bromofluorobenzene	*113*		*76 - 120*		*10/07/22 15:33*	*1*
Dibromofluoromethane (Surr)	*111*		*77 - 124*		*10/07/22 15:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/07/22 15:33*	*1*

Client Sample ID: TW-03_20221004

Lab Sample ID: 460-266826-5

Date Collected: 10/04/22 00:00

Matrix: Water

Date Received: 10/04/22 18:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 15:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 15:54	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 15:54	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 15:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 15:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 15:54	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-03_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 15:54	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 15:54	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 15:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 15:54	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 15:54	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 15:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 15:54	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 15:54	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 15:54	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 15:54	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 15:54	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 15:54	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 15:54	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 15:54	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 15:54	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 15:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
Chloroform	2.7		1.0	0.33	ug/L			10/07/22 15:54	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 15:54	1
cis-1,2-Dichloroethene	0.41	J	1.0	0.22	ug/L			10/07/22 15:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:54	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 15:54	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 15:54	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 15:54	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 15:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 15:54	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 15:54	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 15:54	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 15:54	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 15:54	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 15:54	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 15:54	1
Tetrachloroethene	100		1.0	0.25	ug/L			10/07/22 15:54	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 15:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 15:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 15:54	1
Trichloroethene	0.69	J	1.0	0.31	ug/L			10/07/22 15:54	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 15:54	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 15:54	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 15:54	1

Client Sample ID: TW-03_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 128*		*10/07/22 15:54*	*1*
4-Bromofluorobenzene	*113*		*76 - 120*		*10/07/22 15:54*	*1*
Dibromofluoromethane (Surr)	*109*		*77 - 124*		*10/07/22 15:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/07/22 15:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:27	10/07/22 03:03	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:27	10/07/22 03:03	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:27	10/07/22 03:03	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:27	10/07/22 03:03	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:03	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:27	10/07/22 03:03	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:27	10/07/22 03:03	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:27	10/07/22 03:03	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:27	10/07/22 03:03	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:27	10/07/22 03:03	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:27	10/07/22 03:03	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:03	1

Client Sample ID: TW-03_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-5
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:27	10/07/22 03:03	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:27	10/07/22 03:03	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:27	10/07/22 03:03	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:27	10/07/22 03:03	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:27	10/07/22 03:03	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:03	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:27	10/07/22 03:03	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:27	10/07/22 03:03	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:03	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:03	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:03	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:27	10/07/22 03:03	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:03	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:27	10/07/22 03:03	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:27	10/07/22 03:03	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:27	10/07/22 03:03	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:27	10/07/22 03:03	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:27	10/07/22 03:03	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:27	10/07/22 03:03	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:27	10/07/22 03:03	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:03	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:27	10/07/22 03:03	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*37 - 150*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
2-Fluorobiphenyl	*99*		*46 - 139*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
2-Fluorophenol (Surr)	*46*		*19 - 80*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
Nitrobenzene-d5 (Surr)	*98*		*52 - 137*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*10/06/22 10:27*	*10/07/22 03:03*	*1*
Terphenyl-d14 (Surr)	*43*		*22 - 150*	*10/06/22 10:27*	*10/07/22 03:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:55	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:55	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:55	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 06:55	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 06:55	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 06:55	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:55	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:55	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:55	1

Client Sample ID: TW-03_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-5
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:55	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:55	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 06:55	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:55	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:55	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:55	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*125*	*	*15 - 121*	*10/05/22 23:06*	*10/06/22 06:55*	*1*
DCB Decachlorobiphenyl	*88*		*15 - 121*	*10/05/22 23:06*	*10/06/22 06:55*	*1*
Tetrachloro-m-xylene	*86*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:55*	*1*
Tetrachloro-m-xylene	*74*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:55*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 10:57	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*12 - 150*	*10/05/22 22:53*	*10/06/22 10:57*	*1*
DCB Decachlorobiphenyl	*79*		*12 - 150*	*10/05/22 22:53*	*10/06/22 10:57*	*1*
Tetrachloro-m-xylene	*70*		*11 - 131*	*10/05/22 22:53*	*10/06/22 10:57*	*1*
Tetrachloro-m-xylene	*64*		*11 - 131*	*10/05/22 22:53*	*10/06/22 10:57*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**771**		40.0	19.5	ug/L		10/06/22 19:16	10/09/22 14:32	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:32	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:32	1
Barium	**140**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:32	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:32	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:32	1
Calcium	**116000**		500	53.6	ug/L		10/06/22 19:16	10/09/22 14:32	1
Chromium	**5.5**		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:32	1
Cobalt	**1.6**	**J**	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:32	1
Copper	**3.7**	**J**	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:32	1
Iron	**1660**		120	58.2	ug/L		10/06/22 19:16	10/09/22 14:32	1
Lead	**2.7**		1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:32	1
Magnesium	**47500**		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:32	1
Manganese	**261**		8.0	1.5	ug/L		10/06/22 19:16	10/09/22 14:32	1

Client Sample ID: TW-03_20221004

Lab Sample ID: 460-266826-5

Date Collected: 10/04/22 00:00

Matrix: Water

Date Received: 10/04/22 18:30

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	4.3		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:32	1
Potassium	5380		200	112	ug/L		10/06/22 19:16	10/09/22 14:32	1
Selenium	2.8		2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:32	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:32	1
Sodium	128000		500	163	ug/L		10/06/22 19:16	10/09/22 14:32	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:32	1
Vanadium	3.2	J	4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:32	1
Zinc	6.7	J	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:32	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	233		40.0	19.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Antimony	2.0	U	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 22:33	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 22:33	1
Barium	125		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:33	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/11/22 20:10	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 22:33	1
Calcium	106000		500	53.6	ug/L		10/10/22 20:34	10/10/22 22:33	1
Chromium	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Cobalt	1.1	J	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 22:33	1
Copper	2.5	J	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Iron	492		120	58.2	ug/L		10/10/22 20:34	10/10/22 22:33	1
Lead	3.8		1.2	0.84	ug/L		10/10/22 20:34	10/10/22 22:33	1
Magnesium	45900		200	46.9	ug/L		10/10/22 20:34	10/10/22 22:33	1
Manganese	216		8.0	1.5	ug/L		10/10/22 20:34	10/10/22 22:33	1
Nickel	2.4	J	4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:33	1
Potassium	4950		200	112	ug/L		10/10/22 20:34	10/10/22 22:33	1
Selenium	2.2	J	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 22:33	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 22:33	1
Sodium	127000		500	163	ug/L		10/10/22 20:34	10/10/22 22:33	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 22:33	1
Vanadium	2.0	J	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 22:33	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 22:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 11:23	10/07/22 14:25	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 15:42	1

Client Sample ID: TW-04_20221004

Lab Sample ID: 460-266826-6

Date Collected: 10/04/22 00:00

Matrix: Water

Date Received: 10/04/22 18:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 16:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 16:16	1

Client Sample ID: TW-04_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 16:16	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 16:16	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 16:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 16:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 16:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 16:16	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 16:16	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 16:16	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 16:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 16:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 16:16	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 16:16	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 16:16	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 16:16	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 16:16	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 16:16	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 16:16	1
Bromomethane	1.0	U *	1.0	0.55	ug/L			10/07/22 16:16	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 16:16	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 16:16	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 16:16	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 16:16	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 16:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
Chloroform	9.2		1.0	0.33	ug/L			10/07/22 16:16	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 16:16	1
cis-1,2-Dichloroethene	2.3		1.0	0.22	ug/L			10/07/22 16:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 16:16	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
Dichlorobromomethane	0.50	J	1.0	0.34	ug/L			10/07/22 16:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 16:16	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 16:16	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 16:16	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 16:16	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 16:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 16:16	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 16:16	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 16:16	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 16:16	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 16:16	1
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 16:16	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 16:16	1
Tetrachloroethene	330		1.0	0.25	ug/L			10/07/22 16:16	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 16:16	1

Client Sample ID: TW-04_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 16:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 16:16	1
Trichloroethene	1.9		1.0	0.31	ug/L			10/07/22 16:16	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 16:16	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 16:16	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*		*10/07/22 16:16*	*1*
4-Bromofluorobenzene	*112*		*76 - 120*		*10/07/22 16:16*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 124*		*10/07/22 16:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/07/22 16:16*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:27	10/07/22 03:24	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:27	10/07/22 03:24	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:27	10/07/22 03:24	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:27	10/07/22 03:24	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:24	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:27	10/07/22 03:24	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:24	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:27	10/07/22 03:24	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:27	10/07/22 03:24	1

Client Sample ID: TW-04_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:27	10/07/22 03:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:27	10/07/22 03:24	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:27	10/07/22 03:24	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:27	10/07/22 03:24	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:24	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:27	10/07/22 03:24	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:27	10/07/22 03:24	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:27	10/07/22 03:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:27	10/07/22 03:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:27	10/07/22 03:24	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:27	10/07/22 03:24	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:27	10/07/22 03:24	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:27	10/07/22 03:24	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:24	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:27	10/07/22 03:24	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:27	10/07/22 03:24	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:27	10/07/22 03:24	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/07/22 03:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:27	10/07/22 03:24	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:27	10/07/22 03:24	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:27	10/07/22 03:24	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:27	10/07/22 03:24	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:27	10/07/22 03:24	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:27	10/07/22 03:24	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:27	10/07/22 03:24	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:27	10/07/22 03:24	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:27	10/07/22 03:24	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:27	10/07/22 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*37 - 150*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
2-Fluorobiphenyl	*89*		*46 - 139*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
2-Fluorophenol (Surr)	*40*		*19 - 80*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
Nitrobenzene-d5 (Surr)	*88*		*52 - 137*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
Phenol-d5 (Surr)	*25*		*10 - 56*	*10/06/22 10:27*	*10/07/22 03:24*	*1*
Terphenyl-d14 (Surr)	*37*		*22 - 150*	*10/06/22 10:27*	*10/07/22 03:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:11	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:11	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:11	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 07:11	1

Client Sample ID: TW-04_20221004

Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6

Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 07:11	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 07:11	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:11	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:11	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:11	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 07:11	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 07:11	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 07:11	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 07:11	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 07:11	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 07:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:11*	*1*
DCB Decachlorobiphenyl	*71*		*15 - 121*	*10/05/22 23:06*	*10/06/22 07:11*	*1*
Tetrachloro-m-xylene	*69*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:11*	*1*
Tetrachloro-m-xylene	*60*		*17 - 120*	*10/05/22 23:06*	*10/06/22 07:11*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 11:14	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:14*	*1*
DCB Decachlorobiphenyl	*73*		*12 - 150*	*10/05/22 22:53*	*10/06/22 11:14*	*1*
Tetrachloro-m-xylene	*64*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:14*	*1*
Tetrachloro-m-xylene	*60*		*11 - 131*	*10/05/22 22:53*	*10/06/22 11:14*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2320**		40.0	19.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:34	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:34	1
Barium	**171**		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:34	1
Beryllium	**0.16**	**J**	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:34	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:34	1

Client Sample ID: TW-04_20221004
Date Collected: 10/04/22 00:00
Date Received: 10/04/22 18:30

Lab Sample ID: 460-266826-6
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	88700		500	53.6	ug/L		10/06/22 19:16	10/09/22 14:34	1
Chromium	14.6		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Cobalt	3.3	J	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:34	1
Copper	8.6		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Iron	4430		120	58.2	ug/L		10/06/22 19:16	10/09/22 14:34	1
Lead	1.6		1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:34	1
Magnesium	33100		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:34	1
Manganese	1090		8.0	1.5	ug/L		10/06/22 19:16	10/09/22 14:34	1
Nickel	11.7		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:34	1
Potassium	8380		200	112	ug/L		10/06/22 19:16	10/09/22 14:34	1
Selenium	0.78	J	2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:34	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:34	1
Sodium	109000		500	163	ug/L		10/06/22 19:16	10/09/22 14:34	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:34	1
Vanadium	7.1		4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:34	1
Zinc	11.9	J	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:34	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	797		40.0	19.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Antimony	2.0	U	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 22:35	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 22:35	1
Barium	147		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:35	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/11/22 20:13	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 22:35	1
Calcium	82600		500	53.6	ug/L		10/10/22 20:34	10/10/22 22:35	1
Chromium	3.9	J	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Cobalt	2.5	J	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 22:35	1
Copper	4.9		4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Iron	1630		120	58.2	ug/L		10/10/22 20:34	10/10/22 22:35	1
Lead	1.1	J	1.2	0.84	ug/L		10/10/22 20:34	10/10/22 22:35	1
Magnesium	30400		200	46.9	ug/L		10/10/22 20:34	10/10/22 22:35	1
Manganese	1020		8.0	1.5	ug/L		10/10/22 20:34	10/10/22 22:35	1
Nickel	4.9		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:35	1
Potassium	7610		200	112	ug/L		10/10/22 20:34	10/10/22 22:35	1
Selenium	0.85	J	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 22:35	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 22:35	1
Sodium	107000		500	163	ug/L		10/10/22 20:34	10/10/22 22:35	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 22:35	1
Vanadium	2.8	J	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 22:35	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 22:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 11:23	10/07/22 14:30	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 15:44	1

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/10/22 11:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/10/22 11:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/10/22 11:01	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/10/22 11:01	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/10/22 11:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/10/22 11:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/10/22 11:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/10/22 11:01	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/10/22 11:01	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/10/22 11:01	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/10/22 11:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/10/22 11:01	1
2-Butanone (MEK)	9.4		5.0	1.9	ug/L			10/10/22 11:01	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/10/22 11:01	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/10/22 11:01	1
Acetone	50		5.0	4.4	ug/L			10/10/22 11:01	1
Benzene	0.30	J	1.0	0.20	ug/L			10/10/22 11:01	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/10/22 11:01	1
Bromomethane	1.0	U	1.0	0.55	ug/L			10/10/22 11:01	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/10/22 11:01	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/10/22 11:01	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/10/22 11:01	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/10/22 11:01	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/10/22 11:01	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
Chloroform	1.6		1.0	0.33	ug/L			10/10/22 11:01	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/10/22 11:01	1
cis-1,2-Dichloroethene	14		1.0	0.22	ug/L			10/10/22 11:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 11:01	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/10/22 11:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/10/22 11:01	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/10/22 11:01	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/10/22 11:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/10/22 11:01	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/10/22 11:01	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/10/22 11:01	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/10/22 11:01	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 11:01	1
Styrene	1.0	U	1.0	0.42	ug/L			10/10/22 11:01	1

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 11:01	1
Tetrachloroethene	100		1.0	0.25	ug/L			10/10/22 11:01	1
Toluene	1.0	U	1.0	0.38	ug/L			10/10/22 11:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/10/22 11:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 11:01	1
Trichloroethene	2.1		1.0	0.31	ug/L			10/10/22 11:01	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/10/22 11:01	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/10/22 11:01	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/10/22 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 128*		*10/10/22 11:01*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*10/10/22 11:01*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 124*		*10/10/22 11:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/10/22 11:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/07/22 10:38	10/08/22 07:05	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Methylphenol	10	U	10	0.67	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/07/22 10:38	10/08/22 07:05	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/07/22 10:38	10/08/22 07:05	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/07/22 10:38	10/08/22 07:05	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/08/22 07:05	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Methylphenol	10	U	10	0.65	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/07/22 10:38	10/08/22 07:05	1
Acenaphthene	10	U	10	1.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
Acenaphthylene	10	U	10	0.82	ug/L		10/07/22 10:38	10/08/22 07:05	1
Acetophenone	10	U	10	2.3	ug/L		10/07/22 10:38	10/08/22 07:05	1

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	10	U	10	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
Atrazine	2.0	U *	2.0	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzaldehyde	10	U	10	2.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[a]anthracene	2.1		1.0	0.59	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[a]pyrene	1.6		1.0	0.41	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[b]fluoranthene	2.2		2.0	0.68	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[g,h,i]perylene	1.7	J	10	0.70	ug/L		10/07/22 10:38	10/08/22 07:05	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/07/22 10:38	10/08/22 07:05	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/07/22 10:38	10/08/22 07:05	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/07/22 10:38	10/08/22 07:05	1
Bis(2-ethylhexyl) phthalate	6.2		2.0	0.80	ug/L		10/07/22 10:38	10/08/22 07:05	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/07/22 10:38	10/08/22 07:05	1
Caprolactam	10	U	10	2.2	ug/L		10/07/22 10:38	10/08/22 07:05	1
Carbazole	10	U	10	0.68	ug/L		10/07/22 10:38	10/08/22 07:05	1
Chrysene	2.0		2.0	0.91	ug/L		10/07/22 10:38	10/08/22 07:05	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/07/22 10:38	10/08/22 07:05	1
Dibenzofuran	10	U	10	1.1	ug/L		10/07/22 10:38	10/08/22 07:05	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/07/22 10:38	10/08/22 07:05	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/07/22 10:38	10/08/22 07:05	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/07/22 10:38	10/08/22 07:05	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/07/22 10:38	10/08/22 07:05	1
Fluoranthene	4.0	J	10	0.84	ug/L		10/07/22 10:38	10/08/22 07:05	1
Fluorene	10	U	10	0.91	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/07/22 10:38	10/08/22 07:05	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/07/22 10:38	10/08/22 07:05	1
Indeno[1,2,3-cd]pyrene	1.6	J	2.0	0.94	ug/L		10/07/22 10:38	10/08/22 07:05	1
Isophorone	10	U	10	0.80	ug/L		10/07/22 10:38	10/08/22 07:05	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/07/22 10:38	10/08/22 07:05	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/07/22 10:38	10/08/22 07:05	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/07/22 10:38	10/08/22 07:05	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/07/22 10:38	10/08/22 07:05	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/07/22 10:38	10/08/22 07:05	1
Phenanthrene	2.6	J	10	1.3	ug/L		10/07/22 10:38	10/08/22 07:05	1
Phenol	10	U	10	0.29	ug/L		10/07/22 10:38	10/08/22 07:05	1
Pyrene	3.4	J	10	1.6	ug/L		10/07/22 10:38	10/08/22 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*128*		*37 - 150*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
2-Fluorobiphenyl	*92*		*46 - 139*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
2-Fluorophenol (Surr)	*55*		*19 - 80*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
Nitrobenzene-d5 (Surr)	*90*		*52 - 137*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
Phenol-d5 (Surr)	*44*		*10 - 56*	*10/07/22 10:38*	*10/08/22 07:05*	*1*
Terphenyl-d14 (Surr)	*65*		*22 - 150*	*10/07/22 10:38*	*10/08/22 07:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/07/22 11:20	10/10/22 12:11	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/07/22 11:20	10/10/22 12:11	1

Client Sample ID: TW-01_20221005

Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:20	10/10/22 12:11	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/07/22 11:20	10/10/22 12:11	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/07/22 11:20	10/10/22 12:11	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/07/22 11:20	10/10/22 12:11	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/07/22 11:20	10/10/22 12:11	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/07/22 11:20	10/10/22 12:11	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/07/22 11:20	10/10/22 12:11	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/07/22 11:20	10/10/22 12:11	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/07/22 11:20	10/10/22 12:11	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/07/22 11:20	10/10/22 12:11	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/07/22 11:20	10/10/22 12:11	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/07/22 11:20	10/10/22 12:11	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/07/22 11:20	10/10/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*15 - 121*	*10/07/22 11:20*	*10/10/22 12:11*	*1*
DCB Decachlorobiphenyl	*126*	*	*15 - 121*	*10/07/22 11:20*	*10/10/22 12:11*	*1*
Tetrachloro-m-xylene	*95*		*17 - 120*	*10/07/22 11:20*	*10/10/22 12:11*	*1*
Tetrachloro-m-xylene	*100*		*17 - 120*	*10/07/22 11:20*	*10/10/22 12:11*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:40	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*121*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:40*	*1*
DCB Decachlorobiphenyl	*116*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:40*	*1*
Tetrachloro-m-xylene	*86*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:40*	*1*
Tetrachloro-m-xylene	*76*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:40*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**294000**		200	97.5	ug/L		10/06/22 19:16	10/09/22 14:44	5
Antimony	**1.9**	**J**	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 14:37	1
Arsenic	**63.9**		2.0	0.89	ug/L		10/06/22 19:16	10/09/22 14:37	1

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	3540		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:37	1
Beryllium	14.2		0.80	0.13	ug/L		10/06/22 19:16	10/09/22 14:37	1
Cadmium	5.0		2.0	0.39	ug/L		10/06/22 19:16	10/09/22 14:37	1
Calcium	913000		2500	268	ug/L		10/06/22 19:16	10/09/22 14:44	5
Chromium	3390		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:37	1
Cobalt	325		4.0	0.71	ug/L		10/06/22 19:16	10/09/22 14:37	1
Copper	1340		4.0	2.5	ug/L		10/06/22 19:16	10/09/22 14:37	1
Iron	971000		600	291	ug/L		10/06/22 19:16	10/09/22 14:44	5
Lead	857		1.2	0.84	ug/L		10/06/22 19:16	10/09/22 14:37	1
Magnesium	355000		200	46.9	ug/L		10/06/22 19:16	10/09/22 14:37	1
Manganese	24600		40.0	7.4	ug/L		10/06/22 19:16	10/09/22 14:44	5
Nickel	922		4.0	0.91	ug/L		10/06/22 19:16	10/09/22 14:37	1
Potassium	66400		200	112	ug/L		10/06/22 19:16	10/09/22 14:37	1
Selenium	1.5	J	2.5	0.59	ug/L		10/06/22 19:16	10/09/22 14:37	1
Silver	2.5		2.0	0.29	ug/L		10/06/22 19:16	10/09/22 14:37	1
Sodium	74600		500	163	ug/L		10/06/22 19:16	10/09/22 14:37	1
Thallium	5.1		0.80	0.21	ug/L		10/06/22 19:16	10/09/22 14:37	1
Vanadium	707		4.0	0.68	ug/L		10/06/22 19:16	10/09/22 14:37	1
Zinc	2640		16.0	6.5	ug/L		10/06/22 19:16	10/09/22 14:37	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Antimony	1.9	J	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 23:21	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 23:21	1
Barium	16.3		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 23:21	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/10/22 23:21	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 23:21	1
Calcium	19500		500	53.6	ug/L		10/10/22 20:34	10/10/22 23:21	1
Chromium	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Cobalt	0.91	J	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 23:21	1
Copper	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Iron	120	U	120	58.2	ug/L		10/10/22 20:34	10/10/22 23:21	1
Lead	1.2	U	1.2	0.84	ug/L		10/10/22 20:34	10/10/22 23:21	1
Magnesium	4050		200	46.9	ug/L		10/10/22 20:34	10/10/22 23:21	1
Manganese	185		8.0	1.5	ug/L		10/10/22 20:34	10/10/22 23:21	1
Nickel	9.9		4.0	0.91	ug/L		10/10/22 20:34	10/10/22 23:21	1
Potassium	4310		200	112	ug/L		10/10/22 20:34	10/10/22 23:21	1
Selenium	2.5	U	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 23:21	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 23:21	1
Sodium	35300		500	163	ug/L		10/10/22 20:34	10/10/22 23:21	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 23:21	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 23:21	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 23:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.7		0.20	0.091	ug/L		10/11/22 11:10	10/11/22 14:36	1

Client Sample Results

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Client Sample ID: TW-01_20221005
Date Collected: 10/05/22 10:30
Date Received: 10/05/22 18:00

Lab Sample ID: 460-266877-3
Matrix: Water

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/11/22 14:45	10/11/22 15:31	1

Surrogate Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-124)	(80-120)
460-266752-9	TW-02_20221003	104	114	113	99
460-266752-10	TB_20221003	106	113	111	98
460-266826-5	TW-03_20221004	103	113	109	98
460-266826-6	TW-04_20221004	101	112	108	97
460-266877-3	TW-01_20221005	109	106	107	100
LCS 460-870628/3	Lab Control Sample	98	116	105	100
LCS 460-870989/3	Lab Control Sample	109	105	107	100
LCSD 460-870628/4	Lab Control Sample Dup	101	117	107	99
LCSD 460-870989/18	Lab Control Sample Dup	104	105	102	99
MB 460-870628/7	Method Blank	101	118	110	96
MB 460-870989/8	Method Blank	110	106	104	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(37-150)	(46-139)	(19-80)	(52-137)	(10-56)	(22-150)
460-266752-9	TW-02_20221003	124	104	51	97	34	82
460-266752-9 - DL	TW-02_20221003	81	85	39	79	26	70
460-266826-5	TW-03_20221004	87	99	46	98	29	43
460-266826-6	TW-04_20221004	75	89	40	88	25	37
460-266877-3	TW-01_20221005	128	92	55	90	44	65
LCS 460-870235/2-A	Lab Control Sample	125	96	44	93	30	82
LCS 460-870445/2-A	Lab Control Sample	103	89	48	90	33	78
LCS 460-870657/2-A	Lab Control Sample	119	95	42	85	31	77
LCSD 460-870235/3-A	Lab Control Sample Dup	124	100	43	93	30	86
LCSD 460-870445/3-A	Lab Control Sample Dup	114	92	49	89	32	77
LCSD 460-870657/3-A	Lab Control Sample Dup	118	94	43	86	31	79
MB 460-870235/1-A	Method Blank	112	95	42	94	29	81
MB 460-870439/1-B	Method Blank	123	108	73	110	50	93
MB 460-870445/1-A	Method Blank	108	98	46	95	27	67
MB 460-870657/1-A	Method Blank	124	103	47	96	29	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(15-121)	(15-121)	(17-120)	(17-120)
460-266752-9	TW-02_20221003	76	108	64	74
460-266826-5	TW-03_20221004	88	125 *	74	86
460-266826-6	TW-04_20221004	71	100	60	69
460-266842-J-4-B MS	Matrix Spike	98	82	59	57
460-266842-J-4-C MSD	Matrix Spike Duplicate	116	112	85	84
460-266877-3	TW-01_20221005	126 *	107	100	95
LCS 460-870354/2-A	Lab Control Sample	88	122 *	79	90
LCS 460-870667/2-A	Lab Control Sample	91	81	86	83
LCSD 460-870354/3-A	Lab Control Sample Dup	87	122 *	79	89
LCSD 460-870667/3-A	Lab Control Sample Dup	90	85	85	85
MB 460-870354/1-A	Method Blank	89	126 *	80	92
MB 460-870667/1-A	Method Blank	85	80	80	82

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(12-150)	(12-150)	(11-131)	(11-131)
460-266752-9	TW-02_20221003	70	69	57	62
460-266826-5	TW-03_20221004	79	80	64	70
460-266826-6	TW-04_20221004	73	74	60	64
460-266877-3	TW-01_20221005	116	121	76	86
LCS 460-870353/2-A	Lab Control Sample	81	80	71	73
LCS 460-870664/2-A	Lab Control Sample	116	124	75	109
LCSD 460-870353/3-A	Lab Control Sample Dup	78	76	68	69
LCSD 460-870664/3-A	Lab Control Sample Dup	119	124	101	107
MB 460-870353/1-A	Method Blank	83	78	68	69
MB 460-870664/1-A	Method Blank	110	107	97	97

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-870628/7
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/07/22 10:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/07/22 10:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/22 10:12	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/07/22 10:12	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/07/22 10:12	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/07/22 10:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/07/22 10:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/07/22 10:12	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/07/22 10:12	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/07/22 10:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/07/22 10:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/07/22 10:12	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/07/22 10:12	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/07/22 10:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/07/22 10:12	1
Acetone	5.0	U	5.0	4.4	ug/L			10/07/22 10:12	1
Benzene	1.0	U	1.0	0.20	ug/L			10/07/22 10:12	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/07/22 10:12	1
Bromomethane	1.0	U	1.0	0.55	ug/L			10/07/22 10:12	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/07/22 10:12	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/07/22 10:12	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/07/22 10:12	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/07/22 10:12	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/07/22 10:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/07/22 10:12	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/07/22 10:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/07/22 10:12	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/07/22 10:12	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/07/22 10:12	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/07/22 10:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/07/22 10:12	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/07/22 10:12	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/07/22 10:12	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/07/22 10:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870628/7
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.42	ug/L			10/07/22 10:12	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/07/22 10:12	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/07/22 10:12	1
Toluene	1.0	U	1.0	0.38	ug/L			10/07/22 10:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/22 10:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/07/22 10:12	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/07/22 10:12	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/07/22 10:12	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/07/22 10:12	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/07/22 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*		*10/07/22 10:12*	*1*
4-Bromofluorobenzene	*118*		*76 - 120*		*10/07/22 10:12*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 124*		*10/07/22 10:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/07/22 10:12*	*1*

Lab Sample ID: LCS 460-870628/3
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.1		ug/L		90	68 - 128
1,1,2,2-Tetrachloroethane	20.0	15.5		ug/L		77	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	13.9		ug/L		70	51 - 142
1,1,2-Trichloroethane	20.0	17.7		ug/L		89	74 - 125
1,1-Dichloroethane	20.0	15.9		ug/L		79	73 - 130
1,1-Dichloroethene	20.0	19.1		ug/L		95	68 - 133
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	56 - 144
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		103	67 - 132
1,2,4-Trimethylbenzene	20.0	18.2		ug/L		91	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/L		97	58 - 132
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	17.3		ug/L		87	66 - 129
1,2-Dichloropropane	20.0	15.4		ug/L		77	68 - 128
1,3,5-Trimethylbenzene	20.0	18.0		ug/L		90	75 - 125
1,3-Dichlorobenzene	20.0	18.4		ug/L		92	80 - 120
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
2-Butanone (MEK)	100	109		ug/L		109	61 - 128
2-Hexanone	100	91.3		ug/L		91	61 - 134
4-Methyl-2-pentanone (MIBK)	100	92.4		ug/L		92	69 - 128
Acetone	100	90.1		ug/L		90	61 - 134
Benzene	20.0	16.8		ug/L		84	71 - 126
Bromoform	20.0	21.2		ug/L		106	48 - 144
Bromomethane	20.0	45.8	*	ug/L		229	32 - 150
Carbon disulfide	20.0	17.6		ug/L		88	64 - 138
Carbon tetrachloride	20.0	18.8		ug/L		94	61 - 131
Chlorobenzene	20.0	18.0		ug/L		90	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870628/3
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	20.0	20.8		ug/L		104	67 - 126
Chlorodibromomethane	20.0	20.2		ug/L		101	62 - 130
Chloroethane	20.0	22.8		ug/L		114	42 - 150
Chloroform	20.0	18.3		ug/L		92	78 - 125
Chloromethane	20.0	18.3		ug/L		92	43 - 150
cis-1,2-Dichloroethene	20.0	18.2		ug/L		91	78 - 121
cis-1,3-Dichloropropene	20.0	16.4		ug/L		82	74 - 125
Cyclohexane	20.0	14.5		ug/L		72	60 - 133
Dichlorobromomethane	20.0	17.9		ug/L		89	76 - 121
Dichlorodifluoromethane	20.0	12.1		ug/L		61	33 - 150
Ethylbenzene	20.0	19.1		ug/L		96	78 - 120
Ethylene Dibromide	20.0	18.8		ug/L		94	79 - 126
Isopropylbenzene	20.0	19.6		ug/L		98	79 - 125
Methyl acetate	40.0	29.2		ug/L		73	55 - 146
Methyl tert-butyl ether	20.0	20.0		ug/L		100	72 - 131
Methylcyclohexane	20.0	13.5		ug/L		68	54 - 139
Methylene Chloride	20.0	17.5		ug/L		87	74 - 127
m-Xylene & p-Xylene	20.0	18.9		ug/L		94	78 - 120
n-Butylbenzene	20.0	17.4		ug/L		87	69 - 135
N-Propylbenzene	20.0	16.9		ug/L		84	68 - 129
o-Xylene	20.0	19.4		ug/L		97	78 - 120
sec-Butylbenzene	20.0	18.1		ug/L		91	73 - 129
Styrene	20.0	19.2		ug/L		96	75 - 127
tert-Butylbenzene	20.0	18.3		ug/L		91	72 - 124
Tetrachloroethene	20.0	20.4		ug/L		102	70 - 127
Toluene	20.0	16.9		ug/L		84	78 - 120
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	74 - 126
trans-1,3-Dichloropropene	20.0	17.3		ug/L		87	66 - 127
Trichloroethene	20.0	18.6		ug/L		93	71 - 121
Trichlorofluoromethane	20.0	17.2		ug/L		86	50 - 150
Vinyl chloride	20.0	21.6		ug/L		108	55 - 144
Xylenes, Total	40.0	38.2		ug/L		96	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 128*
4-Bromofluorobenzene	*116*		*76 - 120*
Dibromofluoromethane (Surr)	*105*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 460-870628/4
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	68 - 128	3	30
1,1,2,2-Tetrachloroethane	20.0	15.8		ug/L		79	63 - 139	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	13.6		ug/L		68	51 - 142	3	30
1,1,2-Trichloroethane	20.0	17.6		ug/L		88	74 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870628/4
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	20.0	15.3		ug/L		77	73 - 130	4	30
1,1-Dichloroethene	20.0	18.7		ug/L		93	68 - 133	2	30
1,2,3-Trichlorobenzene	20.0	21.1		ug/L		106	56 - 144	4	30
1,2,4-Trichlorobenzene	20.0	21.4		ug/L		107	67 - 132	3	30
1,2,4-Trimethylbenzene	20.0	17.9		ug/L		90	75 - 125	2	30
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	58 - 132	7	30
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120	0	30
1,2-Dichloroethane	20.0	17.7		ug/L		88	66 - 129	2	30
1,2-Dichloropropane	20.0	15.0		ug/L		75	68 - 128	2	30
1,3,5-Trimethylbenzene	20.0	17.3		ug/L		86	75 - 125	4	30
1,3-Dichlorobenzene	20.0	18.1		ug/L		91	80 - 120	2	30
1,4-Dichlorobenzene	20.0	18.3		ug/L		91	80 - 120	2	30
2-Butanone (MEK)	100	112		ug/L		112	61 - 128	2	30
2-Hexanone	100	92.9		ug/L		93	61 - 134	2	30
4-Methyl-2-pentanone (MIBK)	100	92.8		ug/L		93	69 - 128	0	30
Acetone	100	91.7		ug/L		92	61 - 134	2	30
Benzene	20.0	16.6		ug/L		83	71 - 126	1	30
Bromoform	20.0	21.9		ug/L		110	48 - 144	3	30
Bromomethane	20.0	44.5	*	ug/L		223	32 - 150	3	30
Carbon disulfide	20.0	17.6		ug/L		88	64 - 138	0	30
Carbon tetrachloride	20.0	19.1		ug/L		96	61 - 131	1	30
Chlorobenzene	20.0	17.6		ug/L		88	80 - 120	2	30
Chlorobromomethane	20.0	21.2		ug/L		106	67 - 126	2	30
Chlorodibromomethane	20.0	19.8		ug/L		99	62 - 130	2	30
Chloroethane	20.0	21.1		ug/L		106	42 - 150	7	30
Chloroform	20.0	17.7		ug/L		89	78 - 125	3	30
Chloromethane	20.0	18.4		ug/L		92	43 - 150	1	30
cis-1,2-Dichloroethene	20.0	17.8		ug/L		89	78 - 121	2	30
cis-1,3-Dichloropropene	20.0	16.2		ug/L		81	74 - 125	1	30
Cyclohexane	20.0	14.1		ug/L		70	60 - 133	3	30
Dichlorobromomethane	20.0	17.7		ug/L		89	76 - 121	1	30
Dichlorodifluoromethane	20.0	12.0		ug/L		60	33 - 150	2	30
Ethylbenzene	20.0	18.6		ug/L		93	78 - 120	3	30
Ethylene Dibromide	20.0	18.6		ug/L		93	79 - 126	1	30
Isopropylbenzene	20.0	18.9		ug/L		95	79 - 125	4	30
Methyl acetate	40.0	32.3		ug/L		81	55 - 146	10	30
Methyl tert-butyl ether	20.0	19.8		ug/L		99	72 - 131	1	30
Methylcyclohexane	20.0	12.7		ug/L		63	54 - 139	7	30
Methylene Chloride	20.0	16.8		ug/L		84	74 - 127	4	30
m-Xylene & p-Xylene	20.0	17.7		ug/L		88	78 - 120	7	30
n-Butylbenzene	20.0	16.6		ug/L		83	69 - 135	5	30
N-Propylbenzene	20.0	16.0		ug/L		80	68 - 129	6	30
o-Xylene	20.0	18.8		ug/L		94	78 - 120	3	30
sec-Butylbenzene	20.0	17.5		ug/L		87	73 - 129	4	30
Styrene	20.0	18.3		ug/L		92	75 - 127	5	30
tert-Butylbenzene	20.0	17.8		ug/L		89	72 - 124	2	30
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 127	2	30
Toluene	20.0	16.4		ug/L		82	78 - 120	3	30
trans-1,2-Dichloroethene	20.0	18.7		ug/L		93	74 - 126	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870628/4
Matrix: Water
Analysis Batch: 870628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			20.0	16.9		ug/L		84	66 - 127	3	30
Trichloroethene			20.0	17.8		ug/L		89	71 - 121	4	30
Trichlorofluoromethane			20.0	17.7		ug/L		88	50 - 150	3	30
Vinyl chloride			20.0	22.4		ug/L		112	55 - 144	3	30
Xylenes, Total			40.0	36.4		ug/L		91	78 - 120	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*
4-Bromofluorobenzene	*117*		*76 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 124*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 460-870989/8
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/10/22 09:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/10/22 09:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/10/22 09:15	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/10/22 09:15	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/10/22 09:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/10/22 09:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/10/22 09:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			10/10/22 09:15	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/10/22 09:15	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/10/22 09:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/10/22 09:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			10/10/22 09:15	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/10/22 09:15	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			10/10/22 09:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			10/10/22 09:15	1
Acetone	5.0	U	5.0	4.4	ug/L			10/10/22 09:15	1
Benzene	1.0	U	1.0	0.20	ug/L			10/10/22 09:15	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/10/22 09:15	1
Bromomethane	1.0	U	1.0	0.55	ug/L			10/10/22 09:15	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			10/10/22 09:15	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/10/22 09:15	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/10/22 09:15	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/10/22 09:15	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/10/22 09:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/10/22 09:15	1
Chloromethane	1.0	U	1.0	0.40	ug/L			10/10/22 09:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-870989/8
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			10/10/22 09:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/10/22 09:15	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/10/22 09:15	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			10/10/22 09:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			10/10/22 09:15	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/10/22 09:15	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/10/22 09:15	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/10/22 09:15	1
Styrene	1.0	U	1.0	0.42	ug/L			10/10/22 09:15	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/10/22 09:15	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/10/22 09:15	1
Toluene	1.0	U	1.0	0.38	ug/L			10/10/22 09:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/10/22 09:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			10/10/22 09:15	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/10/22 09:15	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			10/10/22 09:15	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/10/22 09:15	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/10/22 09:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*		*10/10/22 09:15*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*10/10/22 09:15*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*10/10/22 09:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/10/22 09:15*	*1*

Lab Sample ID: LCS 460-870989/3
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	68 - 128
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		96	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	15.0		ug/L		75	51 - 142
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	74 - 125
1,1-Dichloroethane	20.0	19.4		ug/L		97	73 - 130
1,1-Dichloroethene	20.0	18.0		ug/L		90	68 - 133
1,2,3-Trichlorobenzene	20.0	20.1		ug/L		100	56 - 144
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	67 - 132
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		96	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-870989/3
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	58 - 132
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
1,2-Dichloroethane	20.0	20.6		ug/L		103	66 - 129
1,2-Dichloropropane	20.0	18.7		ug/L		94	68 - 128
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	75 - 125
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120
2-Butanone (MEK)	100	89.5		ug/L		89	61 - 128
2-Hexanone	100	100		ug/L		100	61 - 134
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	69 - 128
Acetone	100	132		ug/L		132	61 - 134
Benzene	20.0	18.4		ug/L		92	71 - 126
Bromoform	20.0	19.8		ug/L		99	48 - 144
Bromomethane	20.0	17.0		ug/L		85	32 - 150
Carbon disulfide	20.0	18.5		ug/L		92	64 - 138
Carbon tetrachloride	20.0	19.6		ug/L		98	61 - 131
Chlorobenzene	20.0	18.2		ug/L		91	80 - 120
Chlorobromomethane	20.0	20.5		ug/L		102	67 - 126
Chlorodibromomethane	20.0	19.2		ug/L		96	62 - 130
Chloroethane	20.0	18.0		ug/L		90	42 - 150
Chloroform	20.0	19.7		ug/L		98	78 - 125
Chloromethane	20.0	18.6		ug/L		93	43 - 150
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	78 - 121
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	74 - 125
Cyclohexane	20.0	15.4		ug/L		77	60 - 133
Dichlorobromomethane	20.0	19.8		ug/L		99	76 - 121
Dichlorodifluoromethane	20.0	14.8		ug/L		74	33 - 150
Ethylbenzene	20.0	18.6		ug/L		93	78 - 120
Ethylene Dibromide	20.0	19.7		ug/L		98	79 - 126
Isopropylbenzene	20.0	19.7		ug/L		98	79 - 125
Methyl acetate	40.0	50.8		ug/L		127	55 - 146
Methyl tert-butyl ether	20.0	20.6		ug/L		103	72 - 131
Methylcyclohexane	20.0	14.8		ug/L		74	54 - 139
Methylene Chloride	20.0	19.2		ug/L		96	74 - 127
m-Xylene & p-Xylene	20.0	19.1		ug/L		95	78 - 120
n-Butylbenzene	20.0	18.8		ug/L		94	69 - 135
N-Propylbenzene	20.0	19.7		ug/L		98	68 - 129
o-Xylene	20.0	19.8		ug/L		99	78 - 120
sec-Butylbenzene	20.0	19.6		ug/L		98	73 - 129
Styrene	20.0	19.8		ug/L		99	75 - 127
tert-Butylbenzene	20.0	18.8		ug/L		94	72 - 124
Tetrachloroethene	20.0	18.6		ug/L		93	70 - 127
Toluene	20.0	18.3		ug/L		91	78 - 120
trans-1,2-Dichloroethene	20.0	18.1		ug/L		91	74 - 126
trans-1,3-Dichloropropene	20.0	20.1		ug/L		100	66 - 127
Trichloroethene	20.0	19.0		ug/L		95	71 - 121
Trichlorofluoromethane	20.0	19.0		ug/L		95	50 - 150
Vinyl chloride	20.0	18.3		ug/L		91	55 - 144
Xylenes, Total	40.0	38.9		ug/L		97	78 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 128
4-Bromofluorobenzene	105		76 - 120
Dibromofluoromethane (Surr)	107		77 - 124
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 460-870989/18
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	18.9		ug/L		95	68 - 128	5	30
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/L		97	63 - 139	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	12.7		ug/L		64	51 - 142	17	30
1,1,2-Trichloroethane			20.0	19.3		ug/L		96	74 - 125	2	30
1,1-Dichloroethane			20.0	18.9		ug/L		94	73 - 130	3	30
1,1-Dichloroethene			20.0	16.8		ug/L		84	68 - 133	7	30
1,2,3-Trichlorobenzene			20.0	18.9		ug/L		94	56 - 144	6	30
1,2,4-Trichlorobenzene			20.0	16.9		ug/L		84	67 - 132	9	30
1,2,4-Trimethylbenzene			20.0	18.7		ug/L		93	75 - 125	3	30
1,2-Dibromo-3-Chloropropane			20.0	17.7		ug/L		89	58 - 132	1	30
1,2-Dichlorobenzene			20.0	18.7		ug/L		94	80 - 120	1	30
1,2-Dichloroethane			20.0	19.5		ug/L		98	66 - 129	5	30
1,2-Dichloropropane			20.0	18.1		ug/L		90	68 - 128	4	30
1,3,5-Trimethylbenzene			20.0	19.2		ug/L		96	75 - 125	3	30
1,3-Dichlorobenzene			20.0	19.0		ug/L		95	80 - 120	1	30
1,4-Dichlorobenzene			20.0	18.3		ug/L		91	80 - 120	3	30
2-Butanone (MEK)			100	86.2		ug/L		86	61 - 128	4	30
2-Hexanone			100	102		ug/L		102	61 - 134	1	30
4-Methyl-2-pentanone (MIBK)			100	105		ug/L		105	69 - 128	1	30
Acetone			100	123		ug/L		123	61 - 134	7	30
Benzene			20.0	18.2		ug/L		91	71 - 126	1	30
Bromoform			20.0	19.7		ug/L		99	48 - 144	0	30
Bromomethane			20.0	17.4		ug/L		87	32 - 150	2	30
Carbon disulfide			20.0	17.2		ug/L		86	64 - 138	7	30
Carbon tetrachloride			20.0	18.5		ug/L		92	61 - 131	6	30
Chlorobenzene			20.0	18.4		ug/L		92	80 - 120	1	30
Chlorobromomethane			20.0	19.3		ug/L		96	67 - 126	6	30
Chlorodibromomethane			20.0	18.8		ug/L		94	62 - 130	2	30
Chloroethane			20.0	17.5		ug/L		87	42 - 150	3	30
Chloroform			20.0	19.3		ug/L		96	78 - 125	2	30
Chloromethane			20.0	17.8		ug/L		89	43 - 150	4	30
cis-1,2-Dichloroethene			20.0	19.0		ug/L		95	78 - 121	4	30
cis-1,3-Dichloropropene			20.0	18.9		ug/L		95	74 - 125	4	30
Cyclohexane			20.0	14.1		ug/L		70	60 - 133	9	30
Dichlorobromomethane			20.0	18.8		ug/L		94	76 - 121	5	30
Dichlorodifluoromethane			20.0	13.1		ug/L		65	33 - 150	12	30
Ethylbenzene			20.0	17.9		ug/L		89	78 - 120	4	30
Ethylene Dibromide			20.0	19.1		ug/L		95	79 - 126	3	30
Isopropylbenzene			20.0	18.9		ug/L		95	79 - 125	4	30
Methyl acetate			40.0	50.9		ug/L		127	55 - 146	0	30
Methyl tert-butyl ether			20.0	20.0		ug/L		100	72 - 131	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-870989/18
Matrix: Water
Analysis Batch: 870989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane			20.0	12.5		ug/L		63	54 - 139	17	30
Methylene Chloride			20.0	18.6		ug/L		93	74 - 127	3	30
m-Xylene & p-Xylene			20.0	18.6		ug/L		93	78 - 120	2	30
n-Butylbenzene			20.0	17.6		ug/L		88	69 - 135	6	30
N-Propylbenzene			20.0	18.8		ug/L		94	68 - 129	5	30
o-Xylene			20.0	18.8		ug/L		94	78 - 120	5	30
sec-Butylbenzene			20.0	18.9		ug/L		94	73 - 129	4	30
Styrene			20.0	19.2		ug/L		96	75 - 127	3	30
tert-Butylbenzene			20.0	18.2		ug/L		91	72 - 124	3	30
Tetrachloroethene			20.0	18.0		ug/L		90	70 - 127	3	30
Toluene			20.0	18.1		ug/L		90	78 - 120	1	30
trans-1,2-Dichloroethene			20.0	17.4		ug/L		87	74 - 126	4	30
trans-1,3-Dichloropropene			20.0	18.9		ug/L		94	66 - 127	6	30
Trichloroethene			20.0	18.1		ug/L		91	71 - 121	5	30
Trichlorofluoromethane			20.0	17.5		ug/L		88	50 - 150	8	30
Vinyl chloride			20.0	19.3		ug/L		96	55 - 144	5	30
Xylenes, Total			40.0	37.4		ug/L		93	78 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*
4-Bromofluorobenzene	*105*		*76 - 120*
Dibromofluoromethane (Surr)	*102*		*77 - 124*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-870235/1-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/05/22 10:48	10/05/22 21:35	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Methylphenol	10	U	10	0.67	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/05/22 10:48	10/05/22 21:35	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870235/1-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/05/22 10:48	10/05/22 21:35	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/05/22 10:48	10/05/22 21:35	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/05/22 21:35	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Methylphenol	10	U	10	0.65	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/05/22 10:48	10/05/22 21:35	1
Acenaphthene	10	U	10	1.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
Acenaphthylene	10	U	10	0.82	ug/L		10/05/22 10:48	10/05/22 21:35	1
Acetophenone	10	U	10	2.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
Anthracene	10	U	10	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzaldehyde	10	U	10	2.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/05/22 10:48	10/05/22 21:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/05/22 10:48	10/05/22 21:35	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/05/22 10:48	10/05/22 21:35	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/05/22 10:48	10/05/22 21:35	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/05/22 21:35	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/05/22 10:48	10/05/22 21:35	1
Caprolactam	10	U	10	2.2	ug/L		10/05/22 10:48	10/05/22 21:35	1
Carbazole	10	U	10	0.68	ug/L		10/05/22 10:48	10/05/22 21:35	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/05/22 10:48	10/05/22 21:35	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/05/22 10:48	10/05/22 21:35	1
Dibenzofuran	10	U	10	1.1	ug/L		10/05/22 10:48	10/05/22 21:35	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/05/22 10:48	10/05/22 21:35	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/05/22 10:48	10/05/22 21:35	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/05/22 10:48	10/05/22 21:35	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/05/22 10:48	10/05/22 21:35	1
Fluoranthene	10	U	10	0.84	ug/L		10/05/22 10:48	10/05/22 21:35	1
Fluorene	10	U	10	0.91	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/05/22 10:48	10/05/22 21:35	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/05/22 10:48	10/05/22 21:35	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/05/22 10:48	10/05/22 21:35	1
Isophorone	10	U	10	0.80	ug/L		10/05/22 10:48	10/05/22 21:35	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/05/22 10:48	10/05/22 21:35	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/05/22 10:48	10/05/22 21:35	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/05/22 10:48	10/05/22 21:35	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/05/22 10:48	10/05/22 21:35	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/05/22 10:48	10/05/22 21:35	1
Phenanthrene	10	U	10	1.3	ug/L		10/05/22 10:48	10/05/22 21:35	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870235/1-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	10	U	10	0.29	ug/L		10/05/22 10:48	10/05/22 21:35	1
Pyrene	10	U	10	1.6	ug/L		10/05/22 10:48	10/05/22 21:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*112*		*37 - 150*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
2-Fluorobiphenyl	*95*		*46 - 139*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
2-Fluorophenol (Surr)	*42*		*19 - 80*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
Nitrobenzene-d5 (Surr)	*94*		*52 - 137*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*10/05/22 10:48*	*10/05/22 21:35*	*1*
Terphenyl-d14 (Surr)	*81*		*22 - 150*	*10/05/22 10:48*	*10/05/22 21:35*	*1*

Lab Sample ID: LCS 460-870235/2-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	68.3		ug/L		85	53 - 120
1,2,4,5-Tetrachlorobenzene	80.0	72.7		ug/L		91	46 - 117
1,4-Dioxane	80.0	28.2		ug/L		35	26 - 120
2,2'-oxybis[1-chloropropane]	80.0	37.7		ug/L		47	37 - 120
2,3,4,6-Tetrachlorophenol	80.0	80.8		ug/L		101	54 - 122
2,4,5-Trichlorophenol	80.0	70.5		ug/L		88	58 - 120
2,4,6-Trichlorophenol	80.0	73.0		ug/L		91	61 - 120
2,4-Dichlorophenol	80.0	67.4		ug/L		84	65 - 120
2,4-Dimethylphenol	80.0	58.4		ug/L		73	62 - 120
2,4-Dinitrophenol	160	164		ug/L		103	36 - 150
2,4-Dinitrotoluene	80.0	85.1		ug/L		106	68 - 134
2,6-Dinitrotoluene	80.0	81.3		ug/L		102	65 - 124
2-Chloronaphthalene	80.0	70.4		ug/L		88	52 - 120
2-Chlorophenol	80.0	55.2		ug/L		69	53 - 120
2-Methylnaphthalene	80.0	60.5		ug/L		76	44 - 120
2-Methylphenol	80.0	46.2		ug/L		58	44 - 120
2-Nitroaniline	80.0	55.8		ug/L		70	49 - 120
2-Nitrophenol	80.0	71.5		ug/L		89	60 - 125
3 & 4 Methylphenol	80.0	40.8		ug/L		51	35 - 120
3,3'-Dichlorobenzidine	80.0	69.7		ug/L		87	37 - 137
3-Nitroaniline	80.0	67.2		ug/L		84	40 - 120
4,6-Dinitro-2-methylphenol	160	154		ug/L		96	59 - 135
4-Bromophenyl phenyl ether	80.0	70.1		ug/L		88	62 - 125
4-Chloro-3-methylphenol	80.0	64.1		ug/L		80	61 - 120
4-Chloroaniline	80.0	57.2		ug/L		71	29 - 127
4-Chlorophenyl phenyl ether	80.0	75.6		ug/L		94	59 - 122
4-Methylphenol	80.0	38.7		ug/L		48	33 - 120
4-Nitroaniline	80.0	77.8		ug/L		97	45 - 120
4-Nitrophenol	160	60.4		ug/L		38	12 - 120
Acenaphthene	80.0	69.0		ug/L		86	49 - 120
Acenaphthylene	80.0	66.2		ug/L		83	60 - 120
Acetophenone	80.0	66.2		ug/L		83	62 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870235/2-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	80.0	67.4		ug/L		84	65 - 120
Atrazine	40.0	75.0	*	ug/L		188	43 - 150
Benzaldehyde	40.0	47.9		ug/L		120	41 - 150
Benzo[a]anthracene	80.0	66.9		ug/L		84	63 - 120
Benzo[a]pyrene	80.0	63.2		ug/L		79	60 - 139
Benzo[b]fluoranthene	80.0	68.4		ug/L		85	66 - 125
Benzo[g,h,i]perylene	80.0	76.5		ug/L		96	59 - 136
Benzo[k]fluoranthene	80.0	71.3		ug/L		89	64 - 125
Bis(2-chloroethoxy)methane	80.0	62.5		ug/L		78	64 - 120
Bis(2-chloroethyl)ether	80.0	61.4		ug/L		77	63 - 120
Bis(2-ethylhexyl) phthalate	80.0	75.8		ug/L		95	60 - 132
Butyl benzyl phthalate	80.0	72.7		ug/L		91	58 - 132
Caprolactam	40.0	17.7		ug/L		44	10 - 120
Carbazole	80.0	69.6		ug/L		87	65 - 120
Chrysene	80.0	68.5		ug/L		86	63 - 120
Dibenz(a,h)anthracene	80.0	79.3		ug/L		99	62 - 140
Dibenzofuran	80.0	73.2		ug/L		92	58 - 120
Diethyl phthalate	80.0	77.5		ug/L		97	53 - 129
Dimethyl phthalate	80.0	76.5		ug/L		96	60 - 124
Di-n-butyl phthalate	80.0	69.9		ug/L		87	59 - 133
Di-n-octyl phthalate	80.0	70.2		ug/L		88	49 - 135
Fluoranthene	80.0	72.0		ug/L		90	65 - 123
Fluorene	80.0	75.1		ug/L		94	58 - 120
Hexachlorobenzene	80.0	71.0		ug/L		89	61 - 128
Hexachlorobutadiene	80.0	71.9		ug/L		90	27 - 127
Hexachlorocyclopentadiene	80.0	63.9		ug/L		80	24 - 123
Hexachloroethane	80.0	61.3		ug/L		77	26 - 120
Indeno[1,2,3-cd]pyrene	80.0	77.8		ug/L		97	59 - 137
Isophorone	80.0	66.4		ug/L		83	68 - 121
Naphthalene	80.0	65.6		ug/L		82	51 - 120
Nitrobenzene	80.0	67.9		ug/L		85	64 - 120
N-Nitrosodi-n-propylamine	80.0	62.5		ug/L		78	60 - 120
N-Nitrosodiphenylamine	80.0	66.2		ug/L		83	63 - 120
Pentachlorophenol	160	135		ug/L		84	24 - 131
Phenanthrene	80.0	66.8		ug/L		83	65 - 120
Phenol	80.0	25.3		ug/L		32	18 - 120
Pyrene	80.0	64.4		ug/L		81	51 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*125*		*37 - 150*
2-Fluorobiphenyl	*96*		*46 - 139*
2-Fluorophenol (Surr)	*44*		*19 - 80*
Nitrobenzene-d5 (Surr)	*93*		*52 - 137*
Phenol-d5 (Surr)	*30*		*10 - 56*
Terphenyl-d14 (Surr)	*82*		*22 - 150*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870235/3-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	69.8		ug/L		87	53 - 120	2	30
1,2,4,5-Tetrachlorobenzene			80.0	75.1		ug/L		94	46 - 117	3	30
1,4-Dioxane			80.0	27.3		ug/L		34	26 - 120	3	30
2,2'-oxybis[1-chloropropane]			80.0	38.3		ug/L		48	37 - 120	1	30
2,3,4,6-Tetrachlorophenol			80.0	81.5		ug/L		102	54 - 122	1	30
2,4,5-Trichlorophenol			80.0	70.1		ug/L		88	58 - 120	1	30
2,4,6-Trichlorophenol			80.0	74.7		ug/L		93	61 - 120	2	30
2,4-Dichlorophenol			80.0	67.4		ug/L		84	65 - 120	0	30
2,4-Dimethylphenol			80.0	57.6		ug/L		72	62 - 120	1	30
2,4-Dinitrophenol			160	164		ug/L		103	36 - 150	0	30
2,4-Dinitrotoluene			80.0	84.9		ug/L		106	68 - 134	0	30
2,6-Dinitrotoluene			80.0	81.0		ug/L		101	65 - 124	0	30
2-Chloronaphthalene			80.0	71.3		ug/L		89	52 - 120	1	30
2-Chlorophenol			80.0	55.3		ug/L		69	53 - 120	0	30
2-Methylnaphthalene			80.0	59.8		ug/L		75	44 - 120	1	30
2-Methylphenol			80.0	45.5		ug/L		57	44 - 120	1	30
2-Nitroaniline			80.0	54.7		ug/L		68	49 - 120	2	30
2-Nitrophenol			80.0	71.6		ug/L		89	60 - 125	0	30
3 & 4 Methylphenol			80.0	39.8		ug/L		50	35 - 120	2	30
3,3'-Dichlorobenzidine			80.0	73.1		ug/L		91	37 - 137	5	30
3-Nitroaniline			80.0	65.6		ug/L		82	40 - 120	2	30
4,6-Dinitro-2-methylphenol			160	154		ug/L		96	59 - 135	0	30
4-Bromophenyl phenyl ether			80.0	69.8		ug/L		87	62 - 125	0	30
4-Chloro-3-methylphenol			80.0	61.4		ug/L		77	61 - 120	4	30
4-Chloroaniline			80.0	58.0		ug/L		72	29 - 127	1	30
4-Chlorophenyl phenyl ether			80.0	77.1		ug/L		96	59 - 122	2	30
4-Methylphenol			80.0	37.5		ug/L		47	33 - 120	3	30
4-Nitroaniline			80.0	75.2		ug/L		94	45 - 120	3	30
4-Nitrophenol			160	59.9		ug/L		37	12 - 120	1	30
Acenaphthene			80.0	69.4		ug/L		87	49 - 120	1	30
Acenaphthylene			80.0	66.6		ug/L		83	60 - 120	1	30
Acetophenone			80.0	64.9		ug/L		81	62 - 120	2	30
Anthracene			80.0	66.8		ug/L		83	65 - 120	1	30
Atrazine			40.0	74.6	*	ug/L		186	43 - 150	1	30
Benzaldehyde			40.0	47.3		ug/L		118	41 - 150	1	30
Benzo[a]anthracene			80.0	67.6		ug/L		85	63 - 120	1	30
Benzo[a]pyrene			80.0	63.6		ug/L		79	60 - 139	1	30
Benzo[b]fluoranthene			80.0	68.6		ug/L		86	66 - 125	0	30
Benzo[g,h,i]perylene			80.0	76.8		ug/L		96	59 - 136	0	30
Benzo[k]fluoranthene			80.0	71.8		ug/L		90	64 - 125	1	30
Bis(2-chloroethoxy)methane			80.0	65.0		ug/L		81	64 - 120	4	30
Bis(2-chloroethyl)ether			80.0	61.6		ug/L		77	63 - 120	0	30
Bis(2-ethylhexyl) phthalate			80.0	79.8		ug/L		100	60 - 132	5	30
Butyl benzyl phthalate			80.0	76.8		ug/L		96	58 - 132	5	30
Caprolactam			40.0	16.7		ug/L		42	10 - 120	6	30
Carbazole			80.0	68.7		ug/L		86	65 - 120	1	30
Chrysene			80.0	69.0		ug/L		86	63 - 120	1	30
Dibenz(a,h)anthracene			80.0	79.9		ug/L		100	62 - 140	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870235/3-A
Matrix: Water
Analysis Batch: 870337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			80.0	74.0		ug/L		92	58 - 120	1	30
Diethyl phthalate			80.0	77.3		ug/L		97	53 - 129	0	30
Dimethyl phthalate			80.0	78.0		ug/L		97	60 - 124	2	30
Di-n-butyl phthalate			80.0	71.1		ug/L		89	59 - 133	2	30
Di-n-octyl phthalate			80.0	73.4		ug/L		92	49 - 135	5	30
Fluoranthene			80.0	71.8		ug/L		90	65 - 123	0	30
Fluorene			80.0	75.3		ug/L		94	58 - 120	0	30
Hexachlorobenzene			80.0	72.1		ug/L		90	61 - 128	2	30
Hexachlorobutadiene			80.0	72.5		ug/L		91	27 - 127	1	30
Hexachlorocyclopentadiene			80.0	69.0		ug/L		86	24 - 123	8	30
Hexachloroethane			80.0	60.8		ug/L		76	26 - 120	1	30
Indeno[1,2,3-cd]pyrene			80.0	77.9		ug/L		97	59 - 137	0	30
Isophorone			80.0	65.6		ug/L		82	68 - 121	1	30
Naphthalene			80.0	66.4		ug/L		83	51 - 120	1	30
Nitrobenzene			80.0	68.3		ug/L		85	64 - 120	1	30
N-Nitrosodi-n-propylamine			80.0	62.7		ug/L		78	60 - 120	0	30
N-Nitrosodiphenylamine			80.0	65.4		ug/L		82	63 - 120	1	30
Pentachlorophenol			160	135		ug/L		84	24 - 131	0	30
Phenanthrene			80.0	66.6		ug/L		83	65 - 120	0	30
Phenol			80.0	25.1		ug/L		31	18 - 120	1	30
Pyrene			80.0	67.0		ug/L		84	51 - 124	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*124*		*37 - 150*
2-Fluorobiphenyl	*100*		*46 - 139*
2-Fluorophenol (Surr)	*43*		*19 - 80*
Nitrobenzene-d5 (Surr)	*93*		*52 - 137*
Phenol-d5 (Surr)	*30*		*10 - 56*
Terphenyl-d14 (Surr)	*86*		*22 - 150*

Lab Sample ID: MB 460-870439/1-B
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:31	10/06/22 21:49	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870439/1-B
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:31	10/06/22 21:49	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:31	10/06/22 21:49	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:31	10/06/22 21:49	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:31	10/06/22 21:49	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:31	10/06/22 21:49	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:31	10/06/22 21:49	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:31	10/06/22 21:49	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:31	10/06/22 21:49	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:31	10/06/22 21:49	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:31	10/06/22 21:49	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:31	10/06/22 21:49	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:31	10/06/22 21:49	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:31	10/06/22 21:49	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:31	10/06/22 21:49	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:31	10/06/22 21:49	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:31	10/06/22 21:49	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:31	10/06/22 21:49	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:31	10/06/22 21:49	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:31	10/06/22 21:49	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:31	10/06/22 21:49	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:31	10/06/22 21:49	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:31	10/06/22 21:49	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:31	10/06/22 21:49	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:31	10/06/22 21:49	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:31	10/06/22 21:49	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:31	10/06/22 21:49	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:31	10/06/22 21:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870439/1-B
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:31	10/06/22 21:49	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:31	10/06/22 21:49	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:31	10/06/22 21:49	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:31	10/06/22 21:49	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:31	10/06/22 21:49	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:31	10/06/22 21:49	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:31	10/06/22 21:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*123*		*37 - 150*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
2-Fluorobiphenyl	*108*		*46 - 139*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
2-Fluorophenol (Surr)	*73*		*19 - 80*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
Nitrobenzene-d5 (Surr)	*110*		*52 - 137*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
Phenol-d5 (Surr)	*50*		*10 - 56*	*10/06/22 10:31*	*10/06/22 21:49*	*1*
Terphenyl-d14 (Surr)	*93*		*22 - 150*	*10/06/22 10:31*	*10/06/22 21:49*	*1*

Lab Sample ID: MB 460-870445/1-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/06/22 10:27	10/06/22 20:46	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Methylphenol	10	U	10	0.67	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/06/22 10:27	10/06/22 20:46	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/06/22 10:27	10/06/22 20:46	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/06/22 10:27	10/06/22 20:46	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/06/22 20:46	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Methylphenol	10	U	10	0.65	ug/L		10/06/22 10:27	10/06/22 20:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870445/1-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	10	U	10	1.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/06/22 10:27	10/06/22 20:46	1
Acenaphthene	10	U	10	1.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
Acenaphthylene	10	U	10	0.82	ug/L		10/06/22 10:27	10/06/22 20:46	1
Acetophenone	10	U	10	2.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Anthracene	10	U	10	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzaldehyde	10	U	10	2.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/06/22 10:27	10/06/22 20:46	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/06/22 10:27	10/06/22 20:46	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/06/22 10:27	10/06/22 20:46	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/06/22 10:27	10/06/22 20:46	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/06/22 20:46	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/06/22 10:27	10/06/22 20:46	1
Caprolactam	10	U	10	2.2	ug/L		10/06/22 10:27	10/06/22 20:46	1
Carbazole	10	U	10	0.68	ug/L		10/06/22 10:27	10/06/22 20:46	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/06/22 10:27	10/06/22 20:46	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/06/22 10:27	10/06/22 20:46	1
Dibenzofuran	10	U	10	1.1	ug/L		10/06/22 10:27	10/06/22 20:46	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/06/22 10:27	10/06/22 20:46	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/06/22 10:27	10/06/22 20:46	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/06/22 10:27	10/06/22 20:46	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/06/22 10:27	10/06/22 20:46	1
Fluoranthene	10	U	10	0.84	ug/L		10/06/22 10:27	10/06/22 20:46	1
Fluorene	10	U	10	0.91	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/06/22 10:27	10/06/22 20:46	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/06/22 10:27	10/06/22 20:46	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/06/22 10:27	10/06/22 20:46	1
Isophorone	10	U	10	0.80	ug/L		10/06/22 10:27	10/06/22 20:46	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/06/22 10:27	10/06/22 20:46	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/06/22 10:27	10/06/22 20:46	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/06/22 10:27	10/06/22 20:46	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/06/22 10:27	10/06/22 20:46	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/06/22 10:27	10/06/22 20:46	1
Phenanthrene	10	U	10	1.3	ug/L		10/06/22 10:27	10/06/22 20:46	1
Phenol	10	U	10	0.29	ug/L		10/06/22 10:27	10/06/22 20:46	1
Pyrene	10	U	10	1.6	ug/L		10/06/22 10:27	10/06/22 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*37 - 150*	*10/06/22 10:27*	*10/06/22 20:46*	*1*
2-Fluorobiphenyl	*98*		*46 - 139*	*10/06/22 10:27*	*10/06/22 20:46*	*1*
2-Fluorophenol (Surr)	*46*		*19 - 80*	*10/06/22 10:27*	*10/06/22 20:46*	*1*
Nitrobenzene-d5 (Surr)	*95*		*52 - 137*	*10/06/22 10:27*	*10/06/22 20:46*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870445/1-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870445

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	27		10 - 56	10/06/22 10:27	10/06/22 20:46	1
Terphenyl-d14 (Surr)	67		22 - 150	10/06/22 10:27	10/06/22 20:46	1

Lab Sample ID: LCS 460-870445/2-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	71.7		ug/L		90	53 - 120
1,2,4,5-Tetrachlorobenzene	80.0	74.6		ug/L		93	46 - 117
1,4-Dioxane	80.0	38.1		ug/L		48	26 - 120
2,2'-oxybis[1-chloropropane]	80.0	50.1		ug/L		63	37 - 120
2,3,4,6-Tetrachlorophenol	80.0	83.3		ug/L		104	54 - 122
2,4,5-Trichlorophenol	80.0	72.9		ug/L		91	58 - 120
2,4,6-Trichlorophenol	80.0	76.7		ug/L		96	61 - 120
2,4-Dichlorophenol	80.0	71.2		ug/L		89	65 - 120
2,4-Dimethylphenol	80.0	61.8		ug/L		77	62 - 120
2,4-Dinitrophenol	160	124		ug/L		78	36 - 150
2,4-Dinitrotoluene	80.0	86.1		ug/L		108	68 - 134
2,6-Dinitrotoluene	80.0	81.8		ug/L		102	65 - 124
2-Chloronaphthalene	80.0	72.2		ug/L		90	52 - 120
2-Chlorophenol	80.0	59.5		ug/L		74	53 - 120
2-Methylnaphthalene	80.0	59.4		ug/L		74	44 - 120
2-Methylphenol	80.0	50.0		ug/L		63	44 - 120
2-Nitroaniline	80.0	63.8		ug/L		80	49 - 120
2-Nitrophenol	80.0	77.0		ug/L		96	60 - 125
3 & 4 Methylphenol	80.0	46.0		ug/L		57	35 - 120
3,3'-Dichlorobenzidine	80.0	84.9		ug/L		106	37 - 137
3-Nitroaniline	80.0	59.3		ug/L		74	40 - 120
4,6-Dinitro-2-methylphenol	160	158		ug/L		99	59 - 135
4-Bromophenyl phenyl ether	80.0	80.4		ug/L		101	62 - 125
4-Chloro-3-methylphenol	80.0	67.8		ug/L		85	61 - 120
4-Chloroaniline	80.0	60.2		ug/L		75	29 - 127
4-Chlorophenyl phenyl ether	80.0	78.1		ug/L		98	59 - 122
4-Methylphenol	80.0	44.9		ug/L		56	33 - 120
4-Nitroaniline	80.0	63.7		ug/L		80	45 - 120
4-Nitrophenol	160	46.0		ug/L		29	12 - 120
Acenaphthene	80.0	67.4		ug/L		84	49 - 120
Acenaphthylene	80.0	68.9		ug/L		86	60 - 120
Acetophenone	80.0	65.5		ug/L		82	62 - 120
Anthracene	80.0	75.1		ug/L		94	65 - 120
Atrazine	40.0	68.5	*	ug/L		171	43 - 150
Benzaldehyde	40.0	51.9		ug/L		130	41 - 150
Benzo[a]anthracene	80.0	76.5		ug/L		96	63 - 120
Benzo[a]pyrene	80.0	73.5		ug/L		92	60 - 139
Benzo[b]fluoranthene	80.0	78.6		ug/L		98	66 - 125
Benzo[g,h,i]perylene	80.0	77.7		ug/L		97	59 - 136
Benzo[k]fluoranthene	80.0	78.7		ug/L		98	64 - 125

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870445/2-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	80.0	66.9		ug/L		84	64 - 120
Bis(2-chloroethyl)ether	80.0	64.3		ug/L		80	63 - 120
Bis(2-ethylhexyl) phthalate	80.0	81.3		ug/L		102	60 - 132
Butyl benzyl phthalate	80.0	82.5		ug/L		103	58 - 132
Caprolactam	40.0	18.1		ug/L		45	10 - 120
Carbazole	80.0	71.6		ug/L		89	65 - 120
Chrysene	80.0	73.2		ug/L		92	63 - 120
Dibenz(a,h)anthracene	80.0	86.6		ug/L		108	62 - 140
Dibenzofuran	80.0	74.7		ug/L		93	58 - 120
Diethyl phthalate	80.0	77.4		ug/L		97	53 - 129
Dimethyl phthalate	80.0	76.1		ug/L		95	60 - 124
Di-n-butyl phthalate	80.0	75.8		ug/L		95	59 - 133
Di-n-octyl phthalate	80.0	77.4		ug/L		97	49 - 135
Fluoranthene	80.0	75.2		ug/L		94	65 - 123
Fluorene	80.0	74.2		ug/L		93	58 - 120
Hexachlorobenzene	80.0	82.6		ug/L		103	61 - 128
Hexachlorobutadiene	80.0	51.8		ug/L		65	27 - 127
Hexachlorocyclopentadiene	80.0	69.6		ug/L		87	24 - 123
Hexachloroethane	80.0	33.3		ug/L		42	26 - 120
Indeno[1,2,3-cd]pyrene	80.0	89.8		ug/L		112	59 - 137
Isophorone	80.0	69.9		ug/L		87	68 - 121
Naphthalene	80.0	55.8		ug/L		70	51 - 120
Nitrobenzene	80.0	63.6		ug/L		79	64 - 120
N-Nitrosodi-n-propylamine	80.0	63.0		ug/L		79	60 - 120
N-Nitrosodiphenylamine	80.0	72.7		ug/L		91	63 - 120
Pentachlorophenol	160	153		ug/L		96	24 - 131
Phenanthrene	80.0	72.9		ug/L		91	65 - 120
Phenol	80.0	25.0		ug/L		31	18 - 120
Pyrene	80.0	74.7		ug/L		93	51 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*37 - 150*
2-Fluorobiphenyl	*89*		*46 - 139*
2-Fluorophenol (Surr)	*48*		*19 - 80*
Nitrobenzene-d5 (Surr)	*90*		*52 - 137*
Phenol-d5 (Surr)	*33*		*10 - 56*
Terphenyl-d14 (Surr)	*78*		*22 - 150*

Lab Sample ID: LCSD 460-870445/3-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	73.0		ug/L		91	53 - 120	2	30
1,2,4,5-Tetrachlorobenzene	80.0	76.6		ug/L		96	46 - 117	3	30
1,4-Dioxane	80.0	37.6		ug/L		47	26 - 120	1	30
2,2'-oxybis[1-chloropropane]	80.0	50.2		ug/L		63	37 - 120	0	30
2,3,4,6-Tetrachlorophenol	80.0	86.3		ug/L		108	54 - 122	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870445/3-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	80.0	76.7		ug/L		96	58 - 120	5	30
2,4,6-Trichlorophenol	80.0	78.3		ug/L		98	61 - 120	2	30
2,4-Dichlorophenol	80.0	73.2		ug/L		92	65 - 120	3	30
2,4-Dimethylphenol	80.0	63.0		ug/L		79	62 - 120	2	30
2,4-Dinitrophenol	160	130		ug/L		81	36 - 150	4	30
2,4-Dinitrotoluene	80.0	86.7		ug/L		108	68 - 134	1	30
2,6-Dinitrotoluene	80.0	82.0		ug/L		103	65 - 124	0	30
2-Chloronaphthalene	80.0	75.7		ug/L		95	52 - 120	5	30
2-Chlorophenol	80.0	60.6		ug/L		76	53 - 120	2	30
2-Methylnaphthalene	80.0	59.4		ug/L		74	44 - 120	0	30
2-Methylphenol	80.0	49.7		ug/L		62	44 - 120	1	30
2-Nitroaniline	80.0	64.7		ug/L		81	49 - 120	1	30
2-Nitrophenol	80.0	75.6		ug/L		95	60 - 125	2	30
3 & 4 Methylphenol	80.0	47.5		ug/L		59	35 - 120	3	30
3,3'-Dichlorobenzidine	80.0	83.9		ug/L		105	37 - 137	1	30
3-Nitroaniline	80.0	62.6		ug/L		78	40 - 120	5	30
4,6-Dinitro-2-methylphenol	160	161		ug/L		101	59 - 135	2	30
4-Bromophenyl phenyl ether	80.0	80.1		ug/L		100	62 - 125	0	30
4-Chloro-3-methylphenol	80.0	65.7		ug/L		82	61 - 120	3	30
4-Chloroaniline	80.0	61.1		ug/L		76	29 - 127	2	30
4-Chlorophenyl phenyl ether	80.0	82.5		ug/L		103	59 - 122	6	30
4-Methylphenol	80.0	45.9		ug/L		57	33 - 120	2	30
4-Nitroaniline	80.0	62.8		ug/L		79	45 - 120	1	30
4-Nitrophenol	160	47.7		ug/L		30	12 - 120	4	30
Acenaphthene	80.0	70.0		ug/L		88	49 - 120	4	30
Acenaphthylene	80.0	70.7		ug/L		88	60 - 120	2	30
Acetophenone	80.0	63.1		ug/L		79	62 - 120	4	30
Anthracene	80.0	74.2		ug/L		93	65 - 120	1	30
Atrazine	40.0	69.0	*	ug/L		172	43 - 150	1	30
Benzaldehyde	40.0	53.1		ug/L		133	41 - 150	2	30
Benzo[a]anthracene	80.0	77.7		ug/L		97	63 - 120	2	30
Benzo[a]pyrene	80.0	75.9		ug/L		95	60 - 139	3	30
Benzo[b]fluoranthene	80.0	82.4		ug/L		103	66 - 125	5	30
Benzo[g,h,i]perylene	80.0	81.2		ug/L		102	59 - 136	4	30
Benzo[k]fluoranthene	80.0	78.6		ug/L		98	64 - 125	0	30
Bis(2-chloroethoxy)methane	80.0	66.7		ug/L		83	64 - 120	0	30
Bis(2-chloroethyl)ether	80.0	64.5		ug/L		81	63 - 120	0	30
Bis(2-ethylhexyl) phthalate	80.0	80.9		ug/L		101	60 - 132	0	30
Butyl benzyl phthalate	80.0	83.0		ug/L		104	58 - 132	0	30
Caprolactam	40.0	16.2		ug/L		41	10 - 120	11	30
Carbazole	80.0	72.8		ug/L		91	65 - 120	2	30
Chrysene	80.0	73.1		ug/L		91	63 - 120	0	30
Dibenz(a,h)anthracene	80.0	89.9		ug/L		112	62 - 140	4	30
Dibenzofuran	80.0	76.5		ug/L		96	58 - 120	2	30
Diethyl phthalate	80.0	80.2		ug/L		100	53 - 129	4	30
Dimethyl phthalate	80.0	78.5		ug/L		98	60 - 124	3	30
Di-n-butyl phthalate	80.0	77.7		ug/L		97	59 - 133	3	30
Di-n-octyl phthalate	80.0	78.8		ug/L		99	49 - 135	2	30
Fluoranthene	80.0	76.1		ug/L		95	65 - 123	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870445/3-A
Matrix: Water
Analysis Batch: 870558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870445

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene			80.0	77.7		ug/L		97	58 - 120	5	30
Hexachlorobenzene			80.0	85.0		ug/L		106	61 - 128	3	30
Hexachlorobutadiene			80.0	52.6		ug/L		66	27 - 127	2	30
Hexachlorocyclopentadiene			80.0	75.0		ug/L		94	24 - 123	7	30
Hexachloroethane			80.0	33.9		ug/L		42	26 - 120	2	30
Indeno[1,2,3-cd]pyrene			80.0	91.9		ug/L		115	59 - 137	2	30
Isophorone			80.0	71.0		ug/L		89	68 - 121	2	30
Naphthalene			80.0	56.0		ug/L		70	51 - 120	0	30
Nitrobenzene			80.0	63.2		ug/L		79	64 - 120	1	30
N-Nitrosodi-n-propylamine			80.0	61.7		ug/L		77	60 - 120	2	30
N-Nitrosodiphenylamine			80.0	75.4		ug/L		94	63 - 120	4	30
Pentachlorophenol			160	153		ug/L		95	24 - 131	0	30
Phenanthrene			80.0	74.1		ug/L		93	65 - 120	2	30
Phenol			80.0	26.1		ug/L		33	18 - 120	4	30
Pyrene			80.0	75.6		ug/L		95	51 - 124	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*37 - 150*
2-Fluorobiphenyl	*92*		*46 - 139*
2-Fluorophenol (Surr)	*49*		*19 - 80*
Nitrobenzene-d5 (Surr)	*89*		*52 - 137*
Phenol-d5 (Surr)	*32*		*10 - 56*
Terphenyl-d14 (Surr)	*77*		*22 - 150*

Lab Sample ID: MB 460-870657/1-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
1,4-Dioxane	10	U	10	1.6	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4,5-Trichlorophenol	10	U	10	0.88	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4,6-Trichlorophenol	10	U	10	0.86	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dimethylphenol	10	U	10	0.62	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dinitrophenol	40	U	40	2.6	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,4-Dinitrotoluene	10	U	10	1.0	ug/L		10/07/22 10:38	10/07/22 23:46	1
2,6-Dinitrotoluene	2.0	U	2.0	0.83	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Chlorophenol	10	U	10	0.38	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Methylnaphthalene	10	U	10	0.53	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Methylphenol	10	U	10	0.67	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Nitroaniline	10	U	10	0.47	ug/L		10/07/22 10:38	10/07/22 23:46	1
2-Nitrophenol	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		10/07/22 10:38	10/07/22 23:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870657/1-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		10/07/22 10:38	10/07/22 23:46	1
3-Nitroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/07/22 23:46	1
4,6-Dinitro-2-methylphenol	20	U	20	3.0	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Chloroaniline	10	U	10	1.9	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Methylphenol	10	U	10	0.65	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Nitroaniline	10	U	10	1.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
4-Nitrophenol	20	U	20	4.0	ug/L		10/07/22 10:38	10/07/22 23:46	1
Acenaphthene	10	U	10	1.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
Acenaphthylene	10	U	10	0.82	ug/L		10/07/22 10:38	10/07/22 23:46	1
Acetophenone	10	U	10	2.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Anthracene	10	U	10	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Atrazine	2.0	U	2.0	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzaldehyde	10	U	10	2.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		10/07/22 10:38	10/07/22 23:46	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/07/22 10:38	10/07/22 23:46	1
Bis(2-chloroethoxy)methane	10	U	10	0.59	ug/L		10/07/22 10:38	10/07/22 23:46	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.63	ug/L		10/07/22 10:38	10/07/22 23:46	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80	ug/L		10/07/22 10:38	10/07/22 23:46	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		10/07/22 10:38	10/07/22 23:46	1
Caprolactam	10	U	10	2.2	ug/L		10/07/22 10:38	10/07/22 23:46	1
Carbazole	10	U	10	0.68	ug/L		10/07/22 10:38	10/07/22 23:46	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/07/22 10:38	10/07/22 23:46	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/07/22 10:38	10/07/22 23:46	1
Dibenzofuran	10	U	10	1.1	ug/L		10/07/22 10:38	10/07/22 23:46	1
Diethyl phthalate	10	U	10	0.98	ug/L		10/07/22 10:38	10/07/22 23:46	1
Dimethyl phthalate	10	U	10	0.77	ug/L		10/07/22 10:38	10/07/22 23:46	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		10/07/22 10:38	10/07/22 23:46	1
Di-n-octyl phthalate	10	U	10	0.75	ug/L		10/07/22 10:38	10/07/22 23:46	1
Fluoranthene	10	U	10	0.84	ug/L		10/07/22 10:38	10/07/22 23:46	1
Fluorene	10	U	10	0.91	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachlorocyclopentadiene	10	U	10	3.6	ug/L		10/07/22 10:38	10/07/22 23:46	1
Hexachloroethane	2.0	U	2.0	0.80	ug/L		10/07/22 10:38	10/07/22 23:46	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/07/22 10:38	10/07/22 23:46	1
Isophorone	10	U	10	0.80	ug/L		10/07/22 10:38	10/07/22 23:46	1
Naphthalene	2.0	U	2.0	0.54	ug/L		10/07/22 10:38	10/07/22 23:46	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		10/07/22 10:38	10/07/22 23:46	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		10/07/22 10:38	10/07/22 23:46	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		10/07/22 10:38	10/07/22 23:46	1
Pentachlorophenol	20	U	20	1.4	ug/L		10/07/22 10:38	10/07/22 23:46	1
Phenanthrene	10	U	10	1.3	ug/L		10/07/22 10:38	10/07/22 23:46	1
Phenol	10	U	10	0.29	ug/L		10/07/22 10:38	10/07/22 23:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-870657/1-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	10	U	10	1.6	ug/L		10/07/22 10:38	10/07/22 23:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*124*		*37 - 150*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
2-Fluorobiphenyl	*103*		*46 - 139*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
2-Fluorophenol (Surr)	*47*		*19 - 80*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
Nitrobenzene-d5 (Surr)	*96*		*52 - 137*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*10/07/22 10:38*	*10/07/22 23:46*	*1*
Terphenyl-d14 (Surr)	*84*		*22 - 150*	*10/07/22 10:38*	*10/07/22 23:46*	*1*

Lab Sample ID: LCS 460-870657/2-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	74.0		ug/L		93	53 - 120
1,2,4,5-Tetrachlorobenzene	80.0	76.9		ug/L		96	46 - 117
1,4-Dioxane	80.0	34.8		ug/L		43	26 - 120
2,2'-oxybis[1-chloropropane]	80.0	34.8		ug/L		43	37 - 120
2,3,4,6-Tetrachlorophenol	80.0	92.0		ug/L		115	54 - 122
2,4,5-Trichlorophenol	80.0	82.7		ug/L		103	58 - 120
2,4,6-Trichlorophenol	80.0	83.2		ug/L		104	61 - 120
2,4-Dichlorophenol	80.0	73.9		ug/L		92	65 - 120
2,4-Dimethylphenol	80.0	64.3		ug/L		80	62 - 120
2,4-Dinitrophenol	160	174		ug/L		109	36 - 150
2,4-Dinitrotoluene	80.0	97.1		ug/L		121	68 - 134
2,6-Dinitrotoluene	80.0	89.1		ug/L		111	65 - 124
2-Chloronaphthalene	80.0	76.3		ug/L		95	52 - 120
2-Chlorophenol	80.0	59.2		ug/L		74	53 - 120
2-Methylnaphthalene	80.0	59.4		ug/L		74	44 - 120
2-Methylphenol	80.0	50.9		ug/L		64	44 - 120
2-Nitroaniline	80.0	62.3		ug/L		78	49 - 120
2-Nitrophenol	80.0	77.7		ug/L		97	60 - 125
3 & 4 Methylphenol	80.0	46.4		ug/L		58	35 - 120
3,3'-Dichlorobenzidine	80.0	76.4		ug/L		96	37 - 137
3-Nitroaniline	80.0	73.4		ug/L		92	40 - 120
4,6-Dinitro-2-methylphenol	160	179		ug/L		112	59 - 135
4-Bromophenyl phenyl ether	80.0	82.7		ug/L		103	62 - 125
4-Chloro-3-methylphenol	80.0	72.9		ug/L		91	61 - 120
4-Chloroaniline	80.0	61.4		ug/L		77	29 - 127
4-Chlorophenyl phenyl ether	80.0	86.7		ug/L		108	59 - 122
4-Methylphenol	80.0	46.1		ug/L		58	33 - 120
4-Nitroaniline	80.0	86.4		ug/L		108	45 - 120
4-Nitrophenol	160	69.8		ug/L		44	12 - 120
Acenaphthene	80.0	77.7		ug/L		97	49 - 120
Acenaphthylene	80.0	74.4		ug/L		93	60 - 120
Acetophenone	80.0	69.2		ug/L		87	62 - 120
Anthracene	80.0	79.8		ug/L		100	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-870657/2-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	40.0	74.0	*	ug/L		185	43 - 150
Benzaldehyde	40.0	48.6		ug/L		121	41 - 150
Benzo[a]anthracene	80.0	80.0		ug/L		100	63 - 120
Benzo[a]pyrene	80.0	76.3		ug/L		95	60 - 139
Benzo[b]fluoranthene	80.0	82.8		ug/L		103	66 - 125
Benzo[g,h,i]perylene	80.0	90.1		ug/L		113	59 - 136
Benzo[k]fluoranthene	80.0	84.5		ug/L		106	64 - 125
Bis(2-chloroethoxy)methane	80.0	67.9		ug/L		85	64 - 120
Bis(2-chloroethyl)ether	80.0	63.3		ug/L		79	63 - 120
Bis(2-ethylhexyl) phthalate	80.0	85.0		ug/L		106	60 - 132
Butyl benzyl phthalate	80.0	77.0		ug/L		96	58 - 132
Caprolactam	40.0	19.6		ug/L		49	10 - 120
Carbazole	80.0	83.0		ug/L		104	65 - 120
Chrysene	80.0	81.6		ug/L		102	63 - 120
Dibenz(a,h)anthracene	80.0	101		ug/L		126	62 - 140
Dibenzofuran	80.0	83.2		ug/L		104	58 - 120
Diethyl phthalate	80.0	85.0		ug/L		106	53 - 129
Dimethyl phthalate	80.0	85.6		ug/L		107	60 - 124
Di-n-butyl phthalate	80.0	77.8		ug/L		97	59 - 133
Di-n-octyl phthalate	80.0	91.2		ug/L		114	49 - 135
Fluoranthene	80.0	86.7		ug/L		108	65 - 123
Fluorene	80.0	85.2		ug/L		107	58 - 120
Hexachlorobenzene	80.0	86.4		ug/L		108	61 - 128
Hexachlorobutadiene	80.0	48.5		ug/L		61	27 - 127
Hexachlorocyclopentadiene	80.0	60.2		ug/L		75	24 - 123
Hexachloroethane	80.0	30.5		ug/L		38	26 - 120
Indeno[1,2,3-cd]pyrene	80.0	97.1		ug/L		121	59 - 137
Isophorone	80.0	71.0		ug/L		89	68 - 121
Naphthalene	80.0	55.8		ug/L		70	51 - 120
Nitrobenzene	80.0	67.8		ug/L		85	64 - 120
N-Nitrosodi-n-propylamine	80.0	67.5		ug/L		84	60 - 120
N-Nitrosodiphenylamine	80.0	76.3		ug/L		95	63 - 120
Pentachlorophenol	160	166		ug/L		104	24 - 131
Phenanthrene	80.0	80.2		ug/L		100	65 - 120
Phenol	80.0	31.0		ug/L		39	18 - 120
Pyrene	80.0	76.5		ug/L		96	51 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*119*		*37 - 150*
2-Fluorobiphenyl	*95*		*46 - 139*
2-Fluorophenol (Surr)	*42*		*19 - 80*
Nitrobenzene-d5 (Surr)	*85*		*52 - 137*
Phenol-d5 (Surr)	*31*		*10 - 56*
Terphenyl-d14 (Surr)	*77*		*22 - 150*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870657/3-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	73.6		ug/L		92	53 - 120	1	30
1,2,4,5-Tetrachlorobenzene			80.0	74.9		ug/L		94	46 - 117	3	30
1,4-Dioxane			80.0	38.1		ug/L		48	26 - 120	9	30
2,2'-oxybis[1-chloropropane]			80.0	36.2		ug/L		45	37 - 120	4	30
2,3,4,6-Tetrachlorophenol			80.0	91.3		ug/L		114	54 - 122	1	30
2,4,5-Trichlorophenol			80.0	81.9		ug/L		102	58 - 120	1	30
2,4,6-Trichlorophenol			80.0	82.5		ug/L		103	61 - 120	1	30
2,4-Dichlorophenol			80.0	75.1		ug/L		94	65 - 120	2	30
2,4-Dimethylphenol			80.0	64.9		ug/L		81	62 - 120	1	30
2,4-Dinitrophenol			160	182		ug/L		114	36 - 150	5	30
2,4-Dinitrotoluene			80.0	96.9		ug/L		121	68 - 134	0	30
2,6-Dinitrotoluene			80.0	89.3		ug/L		112	65 - 124	0	30
2-Chloronaphthalene			80.0	75.1		ug/L		94	52 - 120	2	30
2-Chlorophenol			80.0	60.5		ug/L		76	53 - 120	2	30
2-Methylnaphthalene			80.0	59.8		ug/L		75	44 - 120	1	30
2-Methylphenol			80.0	53.0		ug/L		66	44 - 120	4	30
2-Nitroaniline			80.0	61.6		ug/L		77	49 - 120	1	30
2-Nitrophenol			80.0	75.2		ug/L		94	60 - 125	3	30
3 & 4 Methylphenol			80.0	48.5		ug/L		61	35 - 120	4	30
3,3'-Dichlorobenzidine			80.0	79.3		ug/L		99	37 - 137	4	30
3-Nitroaniline			80.0	69.8		ug/L		87	40 - 120	5	30
4,6-Dinitro-2-methylphenol			160	181		ug/L		113	59 - 135	1	30
4-Bromophenyl phenyl ether			80.0	81.1		ug/L		101	62 - 125	2	30
4-Chloro-3-methylphenol			80.0	73.2		ug/L		91	61 - 120	0	30
4-Chloroaniline			80.0	62.4		ug/L		78	29 - 127	2	30
4-Chlorophenyl phenyl ether			80.0	84.8		ug/L		106	59 - 122	2	30
4-Methylphenol			80.0	46.2		ug/L		58	33 - 120	0	30
4-Nitroaniline			80.0	85.7		ug/L		107	45 - 120	1	30
4-Nitrophenol			160	69.6		ug/L		44	12 - 120	0	30
Acenaphthene			80.0	75.5		ug/L		94	49 - 120	3	30
Acenaphthylene			80.0	73.1		ug/L		91	60 - 120	2	30
Acetophenone			80.0	70.5		ug/L		88	62 - 120	2	30
Anthracene			80.0	77.3		ug/L		97	65 - 120	3	30
Atrazine			40.0	75.2	*	ug/L		188	43 - 150	2	30
Benzaldehyde			40.0	50.0		ug/L		125	41 - 150	3	30
Benzo[a]anthracene			80.0	81.3		ug/L		102	63 - 120	2	30
Benzo[a]pyrene			80.0	76.6		ug/L		96	60 - 139	0	30
Benzo[b]fluoranthene			80.0	83.7		ug/L		105	66 - 125	1	30
Benzo[g,h,i]perylene			80.0	90.2		ug/L		113	59 - 136	0	30
Benzo[k]fluoranthene			80.0	86.1		ug/L		108	64 - 125	2	30
Bis(2-chloroethoxy)methane			80.0	68.1		ug/L		85	64 - 120	0	30
Bis(2-chloroethyl)ether			80.0	64.3		ug/L		80	63 - 120	2	30
Bis(2-ethylhexyl) phthalate			80.0	86.0		ug/L		107	60 - 132	1	30
Butyl benzyl phthalate			80.0	79.4		ug/L		99	58 - 132	3	30
Caprolactam			40.0	20.3		ug/L		51	10 - 120	3	30
Carbazole			80.0	82.5		ug/L		103	65 - 120	1	30
Chrysene			80.0	82.2		ug/L		103	63 - 120	1	30
Dibenz(a,h)anthracene			80.0	99.2		ug/L		124	62 - 140	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-870657/3-A
Matrix: Water
Analysis Batch: 870554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			80.0	81.6		ug/L		102	58 - 120	2	30
Diethyl phthalate			80.0	83.2		ug/L		104	53 - 129	2	30
Dimethyl phthalate			80.0	84.5		ug/L		106	60 - 124	1	30
Di-n-butyl phthalate			80.0	76.1		ug/L		95	59 - 133	2	30
Di-n-octyl phthalate			80.0	88.9		ug/L		111	49 - 135	3	30
Fluoranthene			80.0	85.9		ug/L		107	65 - 123	1	30
Fluorene			80.0	84.9		ug/L		106	58 - 120	0	30
Hexachlorobenzene			80.0	86.1		ug/L		108	61 - 128	0	30
Hexachlorobutadiene			80.0	49.6		ug/L		62	27 - 127	2	30
Hexachlorocyclopentadiene			80.0	59.5		ug/L		74	24 - 123	1	30
Hexachloroethane			80.0	31.2		ug/L		39	26 - 120	2	30
Indeno[1,2,3-cd]pyrene			80.0	94.7		ug/L		118	59 - 137	2	30
Isophorone			80.0	71.3		ug/L		89	68 - 121	0	30
Naphthalene			80.0	55.6		ug/L		70	51 - 120	0	30
Nitrobenzene			80.0	72.1		ug/L		90	64 - 120	6	30
N-Nitrosodi-n-propylamine			80.0	68.2		ug/L		85	60 - 120	1	30
N-Nitrosodiphenylamine			80.0	76.2		ug/L		95	63 - 120	0	30
Pentachlorophenol			160	165		ug/L		103	24 - 131	1	30
Phenanthrene			80.0	79.0		ug/L		99	65 - 120	2	30
Phenol			80.0	30.6		ug/L		38	18 - 120	2	30
Pyrene			80.0	76.8		ug/L		96	51 - 124	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*118*		*37 - 150*
2-Fluorobiphenyl	*94*		*46 - 139*
2-Fluorophenol (Surr)	*43*		*19 - 80*
Nitrobenzene-d5 (Surr)	*86*		*52 - 137*
Phenol-d5 (Surr)	*31*		*10 - 56*
Terphenyl-d14 (Surr)	*79*		*22 - 150*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-870354/1-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 06:05	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/05/22 23:06	10/06/22 06:05	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 06:05	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/05/22 23:06	10/06/22 06:05	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870354/1-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 06:05	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/05/22 23:06	10/06/22 06:05	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/05/22 23:06	10/06/22 06:05	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 06:05	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/05/22 23:06	10/06/22 06:05	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/05/22 23:06	10/06/22 06:05	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 06:05	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/05/22 23:06	10/06/22 06:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*126*	*	*15 - 121*	*10/05/22 23:06*	*10/06/22 06:05*	*1*
DCB Decachlorobiphenyl	*89*		*15 - 121*	*10/05/22 23:06*	*10/06/22 06:05*	*1*
Tetrachloro-m-xylene	*92*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:05*	*1*
Tetrachloro-m-xylene	*80*		*17 - 120*	*10/05/22 23:06*	*10/06/22 06:05*	*1*

Lab Sample ID: LCS 460-870354/2-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.800	0.958		ug/L		120	59 - 125
4,4'-DDD	0.800	0.823		ug/L		103	59 - 125
4,4'-DDE	0.800	0.890		ug/L		111	60 - 128
4,4'-DDE	0.800	0.692		ug/L		87	60 - 128
4,4'-DDT	0.800	1.02		ug/L		128	42 - 136
4,4'-DDT	0.800	0.833		ug/L		104	42 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870354/2-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870354

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.800	0.830		ug/L		104	58 - 125		
Aldrin			0.800	0.741		ug/L		93	58 - 125		
alpha-BHC			0.800	0.823		ug/L		103	65 - 122		
alpha-BHC			0.800	0.780		ug/L		97	65 - 122		
beta-BHC			0.800	0.838		ug/L		105	66 - 128		
beta-BHC			0.800	0.836		ug/L		105	66 - 128		
cis-Chlordane			0.800	0.872		ug/L		109	57 - 123		
cis-Chlordane			0.800	0.737		ug/L		92	57 - 123		
delta-BHC			0.800	0.705		ug/L		88	38 - 125		
delta-BHC			0.800	0.738		ug/L		92	38 - 125		
Dieldrin			0.800	0.924		ug/L		115	57 - 133		
Dieldrin			0.800	0.772		ug/L		97	57 - 133		
Endosulfan I			0.800	0.893		ug/L		112	56 - 124		
Endosulfan I			0.800	0.752		ug/L		94	56 - 124		
Endosulfan II			0.800	0.966		ug/L		121	56 - 134		
Endosulfan II			0.800	0.831		ug/L		104	56 - 134		
Endosulfan sulfate			0.800	0.932		ug/L		116	54 - 124		
Endosulfan sulfate			0.800	0.812		ug/L		102	54 - 124		
Endrin			0.800	0.884		ug/L		110	57 - 135		
Endrin			0.800	0.771		ug/L		96	57 - 135		
Endrin aldehyde			0.800	0.906		ug/L		113	54 - 122		
Endrin aldehyde			0.800	0.791		ug/L		99	54 - 122		
Endrin ketone			0.800	1.10	*	ug/L		137	51 - 132		
Endrin ketone			0.800	0.857		ug/L		107	51 - 132		
gamma-BHC (Lindane)			0.800	0.853		ug/L		107	65 - 123		
gamma-BHC (Lindane)			0.800	0.778		ug/L		97	65 - 123		
Heptachlor			0.800	0.901		ug/L		113	59 - 120		
Heptachlor			0.800	0.819		ug/L		102	59 - 120		
Heptachlor epoxide			0.800	0.856		ug/L		107	59 - 128		
Heptachlor epoxide			0.800	0.762		ug/L		95	59 - 128		
Methoxychlor			0.800	1.04		ug/L		130	35 - 138		
Methoxychlor			0.800	0.831		ug/L		104	35 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*122*	*	*15 - 121*
DCB Decachlorobiphenyl	*88*		*15 - 121*
Tetrachloro-m-xylene	*90*		*17 - 120*
Tetrachloro-m-xylene	*79*		*17 - 120*

Lab Sample ID: LCSD 460-870354/3-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870354

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.943		ug/L		118	59 - 125	2	30
4,4'-DDD			0.800	0.851		ug/L		106	59 - 125	3	30
4,4'-DDE			0.800	0.879		ug/L		110	60 - 128	1	30
4,4'-DDE			0.800	0.691		ug/L		86	60 - 128	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870354/3-A
Matrix: Water
Analysis Batch: 870370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870354

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDT			0.800	1.01		ug/L		126	42 - 136	1	30
4,4'-DDT			0.800	0.868		ug/L		109	42 - 136	4	30
Aldrin			0.800	0.822		ug/L		103	58 - 125	1	30
Aldrin			0.800	0.739		ug/L		92	58 - 125	0	30
alpha-BHC			0.800	0.824		ug/L		103	65 - 122	0	30
alpha-BHC			0.800	0.784		ug/L		98	65 - 122	1	30
beta-BHC			0.800	0.833		ug/L		104	66 - 128	1	30
beta-BHC			0.800	0.842		ug/L		105	66 - 128	1	30
cis-Chlordane			0.800	0.863		ug/L		108	57 - 123	1	30
cis-Chlordane			0.800	0.737		ug/L		92	57 - 123	0	30
delta-BHC			0.800	0.702		ug/L		88	38 - 125	0	30
delta-BHC			0.800	0.739		ug/L		92	38 - 125	0	30
Dieldrin			0.800	0.912		ug/L		114	57 - 133	1	30
Dieldrin			0.800	0.771		ug/L		96	57 - 133	0	30
Endosulfan I			0.800	0.883		ug/L		110	56 - 124	1	30
Endosulfan I			0.800	0.753		ug/L		94	56 - 124	0	30
Endosulfan II			0.800	0.956		ug/L		119	56 - 134	1	30
Endosulfan II			0.800	0.855		ug/L		107	56 - 134	3	30
Endosulfan sulfate			0.800	0.924		ug/L		116	54 - 124	1	30
Endosulfan sulfate			0.800	0.824		ug/L		103	54 - 124	2	30
Endrin			0.800	0.870		ug/L		109	57 - 135	2	30
Endrin			0.800	0.773		ug/L		97	57 - 135	0	30
Endrin aldehyde			0.800	0.899		ug/L		112	54 - 122	1	30
Endrin aldehyde			0.800	0.825		ug/L		103	54 - 122	4	30
Endrin ketone			0.800	1.10	*	ug/L		138	51 - 132	0	30
Endrin ketone			0.800	0.860		ug/L		107	51 - 132	0	30
gamma-BHC (Lindane)			0.800	0.853		ug/L		107	65 - 123	0	30
gamma-BHC (Lindane)			0.800	0.784		ug/L		98	65 - 123	1	30
Heptachlor			0.800	0.897		ug/L		112	59 - 120	0	30
Heptachlor			0.800	0.819		ug/L		102	59 - 120	0	30
Heptachlor epoxide			0.800	0.847		ug/L		106	59 - 128	1	30
Heptachlor epoxide			0.800	0.762		ug/L		95	59 - 128	0	30
Methoxychlor			0.800	1.04		ug/L		130	35 - 138	0	30
Methoxychlor			0.800	0.866		ug/L		108	35 - 138	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*122*	*	*15 - 121*
DCB Decachlorobiphenyl	*87*		*15 - 121*
Tetrachloro-m-xylene	*89*		*17 - 120*
Tetrachloro-m-xylene	*79*		*17 - 120*

Lab Sample ID: MB 460-870667/1-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-870667/1-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Aldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/07/22 11:19	10/10/22 11:42	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		10/07/22 11:19	10/10/22 11:42	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/07/22 11:19	10/10/22 11:42	1
beta-BHC	0.020	U	0.020	0.015	ug/L		10/07/22 11:19	10/10/22 11:42	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/07/22 11:19	10/10/22 11:42	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		10/07/22 11:19	10/10/22 11:42	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		10/07/22 11:19	10/10/22 11:42	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/07/22 11:19	10/10/22 11:42	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		10/07/22 11:19	10/10/22 11:42	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		10/07/22 11:19	10/10/22 11:42	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/07/22 11:19	10/10/22 11:42	1
Toxaphene	0.50	U	0.50	0.11	ug/L		10/07/22 11:19	10/10/22 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*15 - 121*	*10/07/22 11:19*	*10/10/22 11:42*	*1*
DCB Decachlorobiphenyl	*85*		*15 - 121*	*10/07/22 11:19*	*10/10/22 11:42*	*1*
Tetrachloro-m-xylene	*82*		*17 - 120*	*10/07/22 11:19*	*10/10/22 11:42*	*1*
Tetrachloro-m-xylene	*80*		*17 - 120*	*10/07/22 11:19*	*10/10/22 11:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-870667/2-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.800	0.780		ug/L		97	59 - 125
4,4'-DDD	0.800	0.899		ug/L		112	59 - 125
4,4'-DDE	0.800	0.820		ug/L		103	60 - 128
4,4'-DDE	0.800	0.897		ug/L		112	60 - 128
4,4'-DDT	0.800	1.03		ug/L		129	42 - 136
4,4'-DDT	0.800	1.01		ug/L		126	42 - 136
Aldrin	0.800	0.804		ug/L		101	58 - 125
Aldrin	0.800	0.878		ug/L		110	58 - 125
alpha-BHC	0.800	0.819		ug/L		102	65 - 122
alpha-BHC	0.800	0.885		ug/L		111	65 - 122
beta-BHC	0.800	0.778		ug/L		97	66 - 128
beta-BHC	0.800	0.865		ug/L		108	66 - 128
cis-Chlordane	0.800	0.768		ug/L		96	57 - 123
cis-Chlordane	0.800	0.860		ug/L		107	57 - 123
delta-BHC	0.800	0.721		ug/L		90	38 - 125
delta-BHC	0.800	0.769		ug/L		96	38 - 125
Dieldrin	0.800	0.824		ug/L		103	57 - 133
Dieldrin	0.800	0.884		ug/L		110	57 - 133
Endosulfan I	0.800	0.806		ug/L		101	56 - 124
Endosulfan I	0.800	0.873		ug/L		109	56 - 124
Endosulfan II	0.800	0.807		ug/L		101	56 - 134
Endosulfan II	0.800	0.924		ug/L		115	56 - 134
Endosulfan sulfate	0.800	0.742		ug/L		93	54 - 124
Endosulfan sulfate	0.800	0.788		ug/L		99	54 - 124
Endrin	0.800	0.811		ug/L		101	57 - 135
Endrin	0.800	0.893		ug/L		112	57 - 135
Endrin aldehyde	0.800	0.794		ug/L		99	54 - 122
Endrin aldehyde	0.800	0.837		ug/L		105	54 - 122
Endrin ketone	0.800	0.858		ug/L		107	51 - 132
Endrin ketone	0.800	0.884		ug/L		110	51 - 132
gamma-BHC (Lindane)	0.800	0.814		ug/L		102	65 - 123
gamma-BHC (Lindane)	0.800	0.899		ug/L		112	65 - 123
Heptachlor	0.800	0.824		ug/L		103	59 - 120
Heptachlor	0.800	0.888		ug/L		111	59 - 120
Heptachlor epoxide	0.800	0.796		ug/L		100	59 - 128
Heptachlor epoxide	0.800	0.880		ug/L		110	59 - 128
Methoxychlor	0.800	0.965		ug/L		121	35 - 138
Methoxychlor	0.800	0.965		ug/L		121	35 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*15 - 121*
DCB Decachlorobiphenyl	*91*		*15 - 121*
Tetrachloro-m-xylene	*83*		*17 - 120*
Tetrachloro-m-xylene	*86*		*17 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-870667/3-A
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870667

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.800		ug/L		100	59 - 125	3	30
4,4'-DDD			0.800	0.852		ug/L		106	59 - 125	5	30
4,4'-DDE			0.800	0.841		ug/L		105	60 - 128	2	30
4,4'-DDE			0.800	0.853		ug/L		107	60 - 128	5	30
4,4'-DDT			0.800	1.03		ug/L		129	42 - 136	0	30
4,4'-DDT			0.800	0.974		ug/L		122	42 - 136	4	30
Aldrin			0.800	0.842		ug/L		105	58 - 125	5	30
Aldrin			0.800	0.855		ug/L		107	58 - 125	3	30
alpha-BHC			0.800	0.845		ug/L		106	65 - 122	3	30
alpha-BHC			0.800	0.863		ug/L		108	65 - 122	3	30
beta-BHC			0.800	0.812		ug/L		102	66 - 128	4	30
beta-BHC			0.800	0.849		ug/L		106	66 - 128	2	30
cis-Chlordane			0.800	0.796		ug/L		100	57 - 123	4	30
cis-Chlordane			0.800	0.838		ug/L		105	57 - 123	3	30
delta-BHC			0.800	0.745		ug/L		93	38 - 125	3	30
delta-BHC			0.800	0.746		ug/L		93	38 - 125	3	30
Dieldrin			0.800	0.840		ug/L		105	57 - 133	2	30
Dieldrin			0.800	0.854		ug/L		107	57 - 133	3	30
Endosulfan I			0.800	0.838		ug/L		105	56 - 124	4	30
Endosulfan I			0.800	0.854		ug/L		107	56 - 124	2	30
Endosulfan II			0.800	0.849		ug/L		106	56 - 134	5	30
Endosulfan II			0.800	0.881		ug/L		110	56 - 134	5	30
Endosulfan sulfate			0.800	0.774		ug/L		97	54 - 124	4	30
Endosulfan sulfate			0.800	0.765		ug/L		96	54 - 124	3	30
Endrin			0.800	0.835		ug/L		104	57 - 135	3	30
Endrin			0.800	0.854		ug/L		107	57 - 135	5	30
Endrin aldehyde			0.800	0.828		ug/L		103	54 - 122	4	30
Endrin aldehyde			0.800	0.824		ug/L		103	54 - 122	1	30
Endrin ketone			0.800	0.908		ug/L		113	51 - 132	6	30
Endrin ketone			0.800	0.866		ug/L		108	51 - 132	2	30
gamma-BHC (Lindane)			0.800	0.848		ug/L		106	65 - 123	4	30
gamma-BHC (Lindane)			0.800	0.878		ug/L		110	65 - 123	2	30
Heptachlor			0.800	0.856		ug/L		107	59 - 120	4	30
Heptachlor			0.800	0.863		ug/L		108	59 - 120	3	30
Heptachlor epoxide			0.800	0.830		ug/L		104	59 - 128	4	30
Heptachlor epoxide			0.800	0.860		ug/L		107	59 - 128	2	30
Methoxychlor			0.800	0.931		ug/L		116	35 - 138	4	30
Methoxychlor			0.800	0.895		ug/L		112	35 - 138	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*15 - 121*
DCB Decachlorobiphenyl	*90*		*15 - 121*
Tetrachloro-m-xylene	*85*		*17 - 120*
Tetrachloro-m-xylene	*85*		*17 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266842-J-4-B MS
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.020	U	0.800	0.735		ug/L		92	59 - 125
4,4'-DDD	0.020	U	0.800	0.785		ug/L		98	59 - 125
4,4'-DDE	0.020	U	0.800	0.737		ug/L		92	60 - 128
4,4'-DDE	0.020	U	0.800	0.750		ug/L		94	60 - 128
4,4'-DDT	0.020	U	0.800	0.945		ug/L		118	42 - 136
4,4'-DDT	0.020	U	0.800	0.884		ug/L		111	42 - 136
Aldrin	0.020	U	0.800	0.707		ug/L		88	58 - 125
Aldrin	0.020	U	0.800	0.713		ug/L		89	58 - 125
alpha-BHC	0.020	U	0.800	0.781		ug/L		98	65 - 122
alpha-BHC	0.020	U	0.800	0.810		ug/L		101	65 - 122
beta-BHC	0.020	U	0.800	0.777		ug/L		97	66 - 128
beta-BHC	0.020	U	0.800	0.826		ug/L		103	66 - 128
cis-Chlordane	0.020	U	0.800	0.737		ug/L		92	57 - 123
cis-Chlordane	0.020	U	0.800	0.802		ug/L		100	57 - 123
delta-BHC	0.020	U	0.800	0.634		ug/L		79	38 - 125
delta-BHC	0.020	U	0.800	0.641		ug/L		80	38 - 125
Dieldrin	0.020	U	0.800	0.798		ug/L		100	57 - 133
Dieldrin	0.020	U	0.800	0.820		ug/L		103	57 - 133
Endosulfan I	0.020	U	0.800	0.797		ug/L		100	56 - 124
Endosulfan I	0.020	U	0.800	0.816		ug/L		102	56 - 124
Endosulfan II	0.020	U	0.800	0.802		ug/L		100	56 - 134
Endosulfan II	0.020	U	0.800	0.823		ug/L		103	56 - 134
Endosulfan sulfate	0.020	U	0.800	0.733		ug/L		92	54 - 124
Endosulfan sulfate	0.020	U	0.800	0.722		ug/L		90	54 - 124
Endrin	0.020	U	0.800	0.798		ug/L		100	57 - 135
Endrin	0.020	U	0.800	0.821		ug/L		103	57 - 135
Endrin aldehyde	0.020	U	0.800	0.736		ug/L		92	54 - 122
Endrin aldehyde	0.020	U	0.800	0.738		ug/L		92	54 - 122
Endrin ketone	0.020	U	0.800	0.833		ug/L		104	51 - 132
Endrin ketone	0.020	U	0.800	0.845		ug/L		106	51 - 132
gamma-BHC (Lindane)	0.020	U	0.800	0.798		ug/L		100	65 - 123
gamma-BHC (Lindane)	0.020	U	0.800	0.835		ug/L		104	65 - 123
Heptachlor	0.020	U	0.800	0.739		ug/L		92	59 - 120
Heptachlor	0.020	U	0.800	0.755		ug/L		94	59 - 120
Heptachlor epoxide	0.020	U	0.800	0.784		ug/L		98	59 - 128
Heptachlor epoxide	0.020	U	0.800	0.818		ug/L		102	59 - 128
Methoxychlor	0.020	U	0.800	0.941		ug/L		118	35 - 138
Methoxychlor	0.020	U	0.800	0.869		ug/L		109	35 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*82*		*15 - 121*
DCB Decachlorobiphenyl	*98*		*15 - 121*
Tetrachloro-m-xylene	*57*		*17 - 120*
Tetrachloro-m-xylene	*59*		*17 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-266842-J-4-C MSD
Matrix: Water
Analysis Batch: 871010

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.020	U	0.800	0.757		ug/L		95	59 - 125	3	30
4,4'-DDD	0.020	U	0.800	0.796		ug/L		99	59 - 125	1	30
4,4'-DDE	0.020	U	0.800	0.770		ug/L		96	60 - 128	4	30
4,4'-DDE	0.020	U	0.800	0.782		ug/L		98	60 - 128	4	30
4,4'-DDT	0.020	U	0.800	0.964		ug/L		120	42 - 136	2	30
4,4'-DDT	0.020	U	0.800	0.911		ug/L		114	42 - 136	3	30
Aldrin	0.020	U	0.800	0.738		ug/L		92	58 - 125	4	30
Aldrin	0.020	U	0.800	0.739		ug/L		92	58 - 125	4	30
alpha-BHC	0.020	U	0.800	0.752		ug/L		94	65 - 122	4	30
alpha-BHC	0.020	U	0.800	0.774		ug/L		97	65 - 122	4	30
beta-BHC	0.020	U	0.800	0.779		ug/L		97	66 - 128	0	30
beta-BHC	0.020	U	0.800	0.825		ug/L		103	66 - 128	0	30
cis-Chlordane	0.020	U	0.800	0.746		ug/L		93	57 - 123	1	30
cis-Chlordane	0.020	U	0.800	0.804		ug/L		101	57 - 123	0	30
delta-BHC	0.020	U	0.800	0.634		ug/L		79	38 - 125	0	30
delta-BHC	0.020	U	0.800	0.640		ug/L		80	38 - 125	0	30
Dieldrin	0.020	U	0.800	0.816		ug/L		102	57 - 133	2	30
Dieldrin	0.020	U	0.800	0.823		ug/L		103	57 - 133	0	30
Endosulfan I	0.020	U	0.800	0.794		ug/L		99	56 - 124	0	30
Endosulfan I	0.020	U	0.800	0.812		ug/L		102	56 - 124	1	30
Endosulfan II	0.020	U	0.800	0.821		ug/L		103	56 - 134	2	30
Endosulfan II	0.020	U	0.800	0.835		ug/L		104	56 - 134	1	30
Endosulfan sulfate	0.020	U	0.800	0.748		ug/L		93	54 - 124	2	30
Endosulfan sulfate	0.020	U	0.800	0.735		ug/L		92	54 - 124	2	30
Endrin	0.020	U	0.800	0.804		ug/L		101	57 - 135	1	30
Endrin	0.020	U	0.800	0.820		ug/L		103	57 - 135	0	30
Endrin aldehyde	0.020	U	0.800	0.740		ug/L		92	54 - 122	1	30
Endrin aldehyde	0.020	U	0.800	0.740		ug/L		92	54 - 122	0	30
Endrin ketone	0.020	U	0.800	0.851		ug/L		106	51 - 132	2	30
Endrin ketone	0.020	U	0.800	0.862		ug/L		108	51 - 132	2	30
gamma-BHC (Lindane)	0.020	U	0.800	0.782		ug/L		98	65 - 123	2	30
gamma-BHC (Lindane)	0.020	U	0.800	0.812		ug/L		101	65 - 123	3	30
Heptachlor	0.020	U	0.800	0.763		ug/L		95	59 - 120	3	30
Heptachlor	0.020	U	0.800	0.783		ug/L		98	59 - 120	4	30
Heptachlor epoxide	0.020	U	0.800	0.785		ug/L		98	59 - 128	0	30
Heptachlor epoxide	0.020	U	0.800	0.813		ug/L		102	59 - 128	1	30
Methoxychlor	0.020	U	0.800	0.958		ug/L		120	35 - 138	2	30
Methoxychlor	0.020	U	0.800	0.883		ug/L		110	35 - 138	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*112*		*15 - 121*
DCB Decachlorobiphenyl	*116*		*15 - 121*
Tetrachloro-m-xylene	*84*		*17 - 120*
Tetrachloro-m-xylene	*85*		*17 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-870353/1-A
Matrix: Water
Analysis Batch: 870405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/05/22 22:53	10/06/22 09:33	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/05/22 22:53	10/06/22 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*12 - 150*	*10/05/22 22:53*	*10/06/22 09:33*	*1*
DCB Decachlorobiphenyl	*83*		*12 - 150*	*10/05/22 22:53*	*10/06/22 09:33*	*1*
Tetrachloro-m-xylene	*69*		*11 - 131*	*10/05/22 22:53*	*10/06/22 09:33*	*1*
Tetrachloro-m-xylene	*68*		*11 - 131*	*10/05/22 22:53*	*10/06/22 09:33*	*1*

Lab Sample ID: LCS 460-870353/2-A
Matrix: Water
Analysis Batch: 870405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	4.00	3.03		ug/L		76	53 - 141
Aroclor 1016	4.00	3.02		ug/L		76	53 - 141
Aroclor 1260	4.00	3.14		ug/L		79	55 - 142
Aroclor 1260	4.00	3.01		ug/L		75	55 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*12 - 150*
DCB Decachlorobiphenyl	*81*		*12 - 150*
Tetrachloro-m-xylene	*73*		*11 - 131*
Tetrachloro-m-xylene	*71*		*11 - 131*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-870353/3-A
Matrix: Water
Analysis Batch: 870405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870353

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	2.93		ug/L		73	53 - 141	4	30
Aroclor 1016			4.00	2.74		ug/L		69	53 - 141	10	30
Aroclor 1260			4.00	3.02		ug/L		76	55 - 142	4	30
Aroclor 1260			4.00	2.94		ug/L		73	55 - 142	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*12 - 150*
DCB Decachlorobiphenyl	*78*		*12 - 150*
Tetrachloro-m-xylene	*69*		*11 - 131*
Tetrachloro-m-xylene	*68*		*11 - 131*

Lab Sample ID: MB 460-870664/1-A
Matrix: Water
Analysis Batch: 871037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1016	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		10/07/22 11:11	10/10/22 11:01	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		10/07/22 11:11	10/10/22 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:01*	*1*
DCB Decachlorobiphenyl	*110*		*12 - 150*	*10/07/22 11:11*	*10/10/22 11:01*	*1*
Tetrachloro-m-xylene	*97*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:01*	*1*
Tetrachloro-m-xylene	*97*		*11 - 131*	*10/07/22 11:11*	*10/10/22 11:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-870664/2-A
Matrix: Water
Analysis Batch: 871037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			4.00	4.25		ug/L		106	53 - 141		
Aroclor 1016			4.00	3.99		ug/L		100	53 - 141		
Aroclor 1260			4.00	4.38		ug/L		110	55 - 142		
Aroclor 1260			4.00	4.13		ug/L		103	55 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*124*		*12 - 150*
DCB Decachlorobiphenyl	*116*		*12 - 150*
Tetrachloro-m-xylene	*109*		*11 - 131*
Tetrachloro-m-xylene	*75*		*11 - 131*

Lab Sample ID: LCSD 460-870664/3-A
Matrix: Water
Analysis Batch: 871037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 870664

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	4.28		ug/L		107	53 - 141	7	30
Aroclor 1016			4.00	4.30		ug/L		107	53 - 141	1	30
Aroclor 1260			4.00	4.52		ug/L		113	55 - 142	3	30
Aroclor 1260			4.00	4.43		ug/L		111	55 - 142	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*124*		*12 - 150*
DCB Decachlorobiphenyl	*119*		*12 - 150*
Tetrachloro-m-xylene	*107*		*11 - 131*
Tetrachloro-m-xylene	*101*		*11 - 131*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U	2.0	0.76	ug/L		10/05/22 21:01	10/05/22 23:19	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/05/22 21:01	10/05/22 23:19	1
Barium	4.0	U	4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:19	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/05/22 21:01	10/05/22 23:19	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/05/22 21:01	10/05/22 23:19	1
Calcium	500	U	500	53.6	ug/L		10/05/22 21:01	10/05/22 23:19	1
Chromium	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:19	1
Cobalt	4.0	U	4.0	0.71	ug/L		10/05/22 21:01	10/05/22 23:19	1
Copper	4.0	U	4.0	2.5	ug/L		10/05/22 21:01	10/05/22 23:19	1
Iron	120	U	120	58.2	ug/L		10/05/22 21:01	10/05/22 23:19	1
Lead	1.2	U	1.2	0.84	ug/L		10/05/22 21:01	10/05/22 23:19	1
Magnesium	200	U	200	46.9	ug/L		10/05/22 21:01	10/05/22 23:19	1
Manganese	8.0	U	8.0	1.5	ug/L		10/05/22 21:01	10/05/22 23:19	1
Nickel	4.0	U	4.0	0.91	ug/L		10/05/22 21:01	10/05/22 23:19	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	200	U	200	112	ug/L		10/05/22 21:01	10/05/22 23:19	1
Selenium	2.5	U	2.5	0.59	ug/L		10/05/22 21:01	10/05/22 23:19	1
Silver	2.0	U	2.0	0.29	ug/L		10/05/22 21:01	10/05/22 23:19	1
Sodium	500	U	500	163	ug/L		10/05/22 21:01	10/05/22 23:19	1
Thallium	0.80	U	0.80	0.21	ug/L		10/05/22 21:01	10/05/22 23:19	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/05/22 21:01	10/05/22 23:19	1
Zinc	16.0	U	16.0	6.5	ug/L		10/05/22 21:01	10/05/22 23:19	1

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2	U	1.2	0.84	ug/L		10/05/22 21:01	10/06/22 01:36	1

Lab Sample ID: MB 460-870341/1-A
Matrix: Water
Analysis Batch: 870468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/05/22 21:01	10/06/22 20:45	1

Lab Sample ID: LCS 460-870341/2-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	25.0	25.44		ug/L		102	80 - 120
Arsenic	50.0	53.10		ug/L		106	80 - 120
Barium	50.0	49.52		ug/L		99	80 - 120
Beryllium	25.0	27.84		ug/L		111	80 - 120
Cadmium	25.0	26.42		ug/L		106	80 - 120
Calcium	2500	2535		ug/L		101	80 - 120
Chromium	50.0	53.28		ug/L		107	80 - 120
Cobalt	25.0	27.11		ug/L		108	80 - 120
Copper	50.0	54.47		ug/L		109	80 - 120
Iron	2500	2627		ug/L		105	80 - 120
Magnesium	2500	2626		ug/L		105	80 - 120
Manganese	250	266.5		ug/L		107	80 - 120
Nickel	50.0	53.92		ug/L		108	80 - 120
Potassium	2500	2545		ug/L		102	80 - 120
Selenium	50.0	54.17		ug/L		108	80 - 120
Silver	25.0	26.04		ug/L		104	80 - 120
Sodium	2500	2676		ug/L		107	80 - 120
Thallium	20.0	21.02		ug/L		105	80 - 120
Vanadium	50.0	53.06		ug/L		106	80 - 120
Zinc	250	261.8		ug/L		105	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-870341/2-A
Matrix: Water
Analysis Batch: 870271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	25.0	27.15		ug/L		109	80 - 120

Lab Sample ID: LCS 460-870341/2-A
Matrix: Water
Analysis Batch: 870468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2561		ug/L		102	80 - 120

Lab Sample ID: MB 460-870563/1-A
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Antimony	2.0	U	2.0	0.76	ug/L		10/06/22 19:16	10/09/22 11:54	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/06/22 19:16	10/09/22 11:54	1
Barium	4.0	U	4.0	0.91	ug/L		10/06/22 19:16	10/09/22 11:54	1
Beryllium	0.80	U	0.80	0.13	ug/L		10/06/22 19:16	10/09/22 11:54	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/06/22 19:16	10/09/22 11:54	1
Calcium	500	U	500	53.6	ug/L		10/06/22 19:16	10/09/22 11:54	1
Chromium	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Cobalt	4.0	U	4.0	0.71	ug/L		10/06/22 19:16	10/09/22 11:54	1
Copper	4.0	U	4.0	2.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Iron	120	U	120	58.2	ug/L		10/06/22 19:16	10/09/22 11:54	1
Lead	1.2	U	1.2	0.84	ug/L		10/06/22 19:16	10/09/22 11:54	1
Magnesium	200	U	200	46.9	ug/L		10/06/22 19:16	10/09/22 11:54	1
Manganese	8.0	U	8.0	1.5	ug/L		10/06/22 19:16	10/09/22 11:54	1
Nickel	4.0	U	4.0	0.91	ug/L		10/06/22 19:16	10/09/22 11:54	1
Potassium	200	U	200	112	ug/L		10/06/22 19:16	10/09/22 11:54	1
Selenium	2.5	U	2.5	0.59	ug/L		10/06/22 19:16	10/09/22 11:54	1
Silver	2.0	U	2.0	0.29	ug/L		10/06/22 19:16	10/09/22 11:54	1
Sodium	500	U	500	163	ug/L		10/06/22 19:16	10/09/22 11:54	1
Thallium	0.80	U	0.80	0.21	ug/L		10/06/22 19:16	10/09/22 11:54	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/06/22 19:16	10/09/22 11:54	1
Zinc	16.0	U	16.0	6.5	ug/L		10/06/22 19:16	10/09/22 11:54	1

Lab Sample ID: LCS 460-870563/2-A
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2449		ug/L		98	80 - 120
Antimony	25.0	25.44		ug/L		102	80 - 120
Arsenic	50.0	48.96		ug/L		98	80 - 120
Barium	50.0	51.82		ug/L		104	80 - 120
Beryllium	25.0	24.84		ug/L		99	80 - 120
Cadmium	25.0	25.73		ug/L		103	80 - 120
Calcium	2500	2565		ug/L		103	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-870563/2-A
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	50.0	52.37		ug/L		105	80 - 120
Cobalt	25.0	25.36		ug/L		101	80 - 120
Copper	50.0	52.48		ug/L		105	80 - 120
Iron	2500	2580		ug/L		103	80 - 120
Lead	25.0	25.13		ug/L		101	80 - 120
Magnesium	2500	2549		ug/L		102	80 - 120
Manganese	250	257.9		ug/L		103	80 - 120
Nickel	50.0	51.75		ug/L		104	80 - 120
Potassium	2500	2501		ug/L		100	80 - 120
Selenium	50.0	48.60		ug/L		97	80 - 120
Silver	25.0	24.49		ug/L		98	80 - 120
Sodium	2500	2595		ug/L		104	80 - 120
Thallium	20.0	19.84		ug/L		99	80 - 120
Vanadium	50.0	50.58		ug/L		101	80 - 120
Zinc	250	254.7		ug/L		102	80 - 120

Lab Sample ID: 460-266887-F-8-C MS
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	39.5	J	2500	2582		ug/L		102	75 - 125
Antimony	2.0	U	25.0	27.53		ug/L		110	75 - 125
Arsenic	2.0	U	50.0	51.03		ug/L		102	75 - 125
Barium	29.9		50.0	82.82		ug/L		106	75 - 125
Beryllium	0.80	U	25.0	26.91		ug/L		108	75 - 125
Cadmium	2.0	U	25.0	27.30		ug/L		109	75 - 125
Calcium	14400		2500	16990	4	ug/L		103	75 - 125
Chromium	2.8	J	50.0	53.53		ug/L		102	75 - 125
Cobalt	4.0	U	25.0	26.82		ug/L		107	75 - 125
Copper	4.0	U	50.0	53.60		ug/L		107	75 - 125
Iron	120	U	2500	2671		ug/L		107	75 - 125
Lead	1.2	U	25.0	26.87		ug/L		107	75 - 125
Magnesium	11300		2500	13960	4	ug/L		104	75 - 125
Manganese	15.6		250	280.9		ug/L		106	75 - 125
Nickel	4.2		50.0	55.84		ug/L		103	75 - 125
Potassium	5660		2500	8158		ug/L		100	75 - 125
Selenium	2.5	U	50.0	51.83		ug/L		104	75 - 125
Silver	2.0	U	25.0	25.52		ug/L		102	75 - 125
Sodium	119000		2500	121200	4	ug/L		93	75 - 125
Thallium	0.80	U	20.0	21.12		ug/L		106	75 - 125
Vanadium	4.0	U	50.0	53.09		ug/L		106	75 - 125
Zinc	8.5	J	250	265.5		ug/L		103	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266887-F-8-B DU
Matrix: Water
Analysis Batch: 870930

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870563

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	39.5	J	35.40	J	ug/L		11	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	29.9		29.32		ug/L		2	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	14400		14570		ug/L		1	20
Chromium	2.8	J	2.77	J	ug/L		0.1	20
Cobalt	4.0	U	4.0	U	ug/L		NC	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	120	U	120	U	ug/L		NC	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Magnesium	11300		11400		ug/L		0.5	20
Manganese	15.6		15.45		ug/L		0.7	20
Nickel	4.2		4.41		ug/L		6	20
Potassium	5660		5636		ug/L		0.4	20
Selenium	2.5	U	2.5	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	119000		120700		ug/L		2	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20
Zinc	8.5	J	8.86	J	ug/L		4	20

Lab Sample ID: MB 460-871155/19-A
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	19.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Antimony	2.0	U	2.0	0.76	ug/L		10/10/22 20:34	10/10/22 22:18	1
Arsenic	2.0	U	2.0	0.89	ug/L		10/10/22 20:34	10/10/22 22:18	1
Barium	4.0	U	4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:18	1
Cadmium	2.0	U	2.0	0.39	ug/L		10/10/22 20:34	10/10/22 22:18	1
Calcium	500	U	500	53.6	ug/L		10/10/22 20:34	10/10/22 22:18	1
Chromium	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Cobalt	4.0	U	4.0	0.71	ug/L		10/10/22 20:34	10/10/22 22:18	1
Copper	4.0	U	4.0	2.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Iron	120	U	120	58.2	ug/L		10/10/22 20:34	10/10/22 22:18	1
Lead	1.2	U	1.2	0.84	ug/L		10/10/22 20:34	10/10/22 22:18	1
Magnesium	200	U	200	46.9	ug/L		10/10/22 20:34	10/10/22 22:18	1
Manganese	8.0	U	8.0	1.5	ug/L		10/10/22 20:34	10/10/22 22:18	1
Nickel	4.0	U	4.0	0.91	ug/L		10/10/22 20:34	10/10/22 22:18	1
Potassium	200	U	200	112	ug/L		10/10/22 20:34	10/10/22 22:18	1
Selenium	2.5	U	2.5	0.59	ug/L		10/10/22 20:34	10/10/22 22:18	1
Silver	2.0	U	2.0	0.29	ug/L		10/10/22 20:34	10/10/22 22:18	1
Sodium	500	U	500	163	ug/L		10/10/22 20:34	10/10/22 22:18	1
Thallium	0.80	U	0.80	0.21	ug/L		10/10/22 20:34	10/10/22 22:18	1
Vanadium	4.0	U	4.0	0.68	ug/L		10/10/22 20:34	10/10/22 22:18	1
Zinc	16.0	U	16.0	6.5	ug/L		10/10/22 20:34	10/10/22 22:18	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-871155/19-A
Matrix: Water
Analysis Batch: 871269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.80	U	0.80	0.13	ug/L		10/10/22 20:34	10/11/22 19:48	1

Lab Sample ID: LCS 460-871155/20-A
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2510		ug/L		100	80 - 120
Antimony	25.0	26.94		ug/L		108	80 - 120
Arsenic	50.0	51.63		ug/L		103	80 - 120
Barium	50.0	50.26		ug/L		101	80 - 120
Cadmium	25.0	26.22		ug/L		105	80 - 120
Calcium	2500	2581		ug/L		103	80 - 120
Chromium	50.0	51.76		ug/L		104	80 - 120
Cobalt	25.0	26.20		ug/L		105	80 - 120
Copper	50.0	52.39		ug/L		105	80 - 120
Iron	2500	2602		ug/L		104	80 - 120
Lead	25.0	26.25		ug/L		105	80 - 120
Magnesium	2500	2633		ug/L		105	80 - 120
Manganese	250	263.4		ug/L		105	80 - 120
Nickel	50.0	52.23		ug/L		104	80 - 120
Potassium	2500	2517		ug/L		101	80 - 120
Selenium	50.0	50.30		ug/L		101	80 - 120
Silver	25.0	26.70		ug/L		107	80 - 120
Sodium	2500	2799		ug/L		112	80 - 120
Thallium	20.0	20.44		ug/L		102	80 - 120
Vanadium	50.0	51.89		ug/L		104	80 - 120
Zinc	250	259.0		ug/L		104	80 - 120

Lab Sample ID: LCS 460-871155/20-A
Matrix: Water
Analysis Batch: 871269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	25.0	26.80		ug/L		107	80 - 120

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.0	U	25.0	21.81		ug/L		87	75 - 125
Arsenic	2.0	U	50.0	52.70		ug/L		105	75 - 125
Barium	107		50.0	157.7		ug/L		102	75 - 125
Beryllium	0.80	U	25.0	26.54		ug/L		106	75 - 125
Cadmium	2.0	U	25.0	25.53		ug/L		102	75 - 125
Calcium	88300		2500	91590	4	ug/L		132	75 - 125
Chromium	4.0	U	50.0	49.69		ug/L		99	75 - 125
Cobalt	1.7	J	25.0	26.64		ug/L		100	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	4.0	U	50.0	49.82		ug/L		100	75 - 125
Iron	120	U	2500	2505		ug/L		100	75 - 125
Magnesium	34500		2500	37010	4	ug/L		100	75 - 125
Manganese	450		250	696.9		ug/L		99	75 - 125
Nickel	3.9	J	50.0	52.60		ug/L		97	75 - 125
Potassium	3590		2500	6043		ug/L		98	75 - 125
Selenium	2.9		50.0	55.91		ug/L		106	75 - 125
Silver	2.0	U	25.0	23.99		ug/L		96	75 - 125
Sodium	141000		2500	142700	4	ug/L		56	75 - 125
Thallium	0.80	U	20.0	20.22		ug/L		101	75 - 125
Vanadium	4.0	U	50.0	50.97		ug/L		102	75 - 125
Zinc	16.0	U	250	249.5		ug/L		100	75 - 125

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.2	U	25.0	26.24		ug/L		105	75 - 125

Lab Sample ID: 460-266752-9 MS
Matrix: Water
Analysis Batch: 870468

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	40.0	U	2500	2536		ug/L		101	75 - 125

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	107		107.3		ug/L		0.7	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	88300		88940		ug/L		0.7	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	1.7	J	1.66	J	ug/L		3	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	120	U	120	U	ug/L		NC	20
Magnesium	34500		34170		ug/L		1	20
Manganese	450		444.9		ug/L		1	20
Nickel	3.9	J	3.73	J	ug/L		5	20
Potassium	3590		3560		ug/L		0.9	20
Selenium	2.9		2.83		ug/L		0.9	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	141000		138800		ug/L		2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870271

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	1.2	U	1.2	U	ug/L		NC	20

Lab Sample ID: 460-266752-9 DU
Matrix: Water
Analysis Batch: 870468

Client Sample ID: TW-02_20221003
Prep Type: Dissolved
Prep Batch: 870341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	40.0	U	40.0	U	ug/L		NC	20

Lab Sample ID: 460-266466-F-1-C MS
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	40.0	U	2500	2435		ug/L		97	75 - 125
Antimony	2.0	U	25.0	21.82		ug/L		87	75 - 125
Arsenic	2.0	U	50.0	53.01		ug/L		106	75 - 125
Barium	85.1		50.0	133.2		ug/L		96	75 - 125
Cadmium	2.0	U	25.0	25.84		ug/L		103	75 - 125
Calcium	42700		2500	45270	4	ug/L		102	75 - 125
Chromium	4.0	U	50.0	50.21		ug/L		100	75 - 125
Cobalt	4.0	U	25.0	24.70		ug/L		99	75 - 125
Copper	4.0	U	50.0	49.08		ug/L		98	75 - 125
Iron	120	U	2500	2524		ug/L		101	75 - 125
Lead	1.2	U	25.0	25.13		ug/L		101	75 - 125
Magnesium	15300		2500	17620	4	ug/L		92	75 - 125
Manganese	212		250	460.4		ug/L		99	75 - 125
Nickel	2.7	J	50.0	51.84		ug/L		98	75 - 125
Potassium	9780		2500	11810		ug/L		81	75 - 125
Selenium	2.5	U	50.0	52.35		ug/L		105	75 - 125
Silver	2.0	U	25.0	26.13		ug/L		105	75 - 125
Sodium	74000		2500	75380	4	ug/L		56	75 - 125
Thallium	0.80	U	20.0	19.12		ug/L		96	75 - 125
Vanadium	4.0	U	50.0	49.45		ug/L		99	75 - 125
Zinc	16.0	U	250	248.0		ug/L		99	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-266466-F-1-C MS
Matrix: Water
Analysis Batch: 871758

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	40.0	U	2500	2492		ug/L		100	75 - 125
Antimony	2.0	U	25.0	22.24		ug/L		89	75 - 125
Arsenic	2.0	U	50.0	53.36		ug/L		107	75 - 125
Barium	85.1		50.0	143.2		ug/L		116	75 - 125
Beryllium	0.80	U ^	25.0	25.11		ug/L		100	75 - 125
Cadmium	2.0	U	25.0	25.93		ug/L		104	75 - 125
Calcium	42700		2500	48350	4	ug/L		225	75 - 125
Chromium	4.0	U	50.0	50.66		ug/L		101	75 - 125
Cobalt	4.0	U	25.0	25.76		ug/L		103	75 - 125
Copper	4.0	U	50.0	50.98		ug/L		102	75 - 125
Iron	120	U	2500	2544		ug/L		102	75 - 125
Lead	1.2	U	25.0	25.91		ug/L		104	75 - 125
Magnesium	15300		2500	18750	4	ug/L		138	75 - 125
Manganese	212		250	476.7		ug/L		106	75 - 125
Nickel	2.7	J	50.0	53.10		ug/L		101	75 - 125
Potassium	9780		2500	12920	N	ug/L		126	75 - 125
Selenium	2.5	U	50.0	50.32		ug/L		101	75 - 125
Silver	2.0	U	25.0	22.97		ug/L		92	75 - 125
Sodium	74000		2500	79780	4	ug/L		232	75 - 125
Thallium	0.80	U	20.0	20.72		ug/L		104	75 - 125
Vanadium	4.0	U	50.0	51.96		ug/L		104	75 - 125
Zinc	16.0	U	250	254.9		ug/L		102	75 - 125

Lab Sample ID: 460-266466-F-1-B DU
Matrix: Water
Analysis Batch: 871052

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	40.0	U	40.0	U	ug/L		NC	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	85.1		89.78		ug/L		5	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	42700		44620		ug/L		4	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	4.0	U	4.0	U	ug/L		NC	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	120	U	120	U	ug/L		NC	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Magnesium	15300		15890		ug/L		4	20
Manganese	212		216.6		ug/L		2	20
Nickel	2.7	J	2.90	J	ug/L		7	20
Potassium	9780		10260		ug/L		5	20
Selenium	2.5	U	2.5	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	74000		77550		ug/L		5	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 460-266466-F-1-B DU
Matrix: Water
Analysis Batch: 871269

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 871155

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	0.80	U	0.80	U	ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-870234/1-A
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/05/22 10:46	10/05/22 13:43	1

Lab Sample ID: LCS 460-870234/2-A
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.08		ug/L		108	80 - 120

Lab Sample ID: 460-266745-J-5-C MS
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	0.974		ug/L		97	75 - 125

Lab Sample ID: 460-266745-J-5-D MSD
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.06		ug/L		106	75 - 125	9	20

Lab Sample ID: 460-266745-J-5-B DU
Matrix: Water
Analysis Batch: 870295

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870234

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-870669/1-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 11:23	10/07/22 14:10	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 460-870669/2-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.03		ug/L		103	80 - 120

Lab Sample ID: 460-266440-F-6-B MS
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.08		ug/L		108	75 - 125

Lab Sample ID: 460-266440-G-6-F MSD
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.02		ug/L		102	75 - 125	6	20

Lab Sample ID: 460-266440-G-6-E DU
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 870669

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-870683/1-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 870683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/22 14:18	10/07/22 14:59	1

Lab Sample ID: LCS 460-870683/3-A
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 870683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.12		ug/L		112	80 - 120

Lab Sample ID: MB 460-871270/1-A
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/11/22 11:10	10/11/22 14:24	1

Lab Sample ID: LCS 460-871270/2-A
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.10		ug/L		110	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 460-266968-D-3-G MS
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.14		ug/L		114	75 - 125

Lab Sample ID: 460-266968-D-3-H MSD
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.07		ug/L		107	75 - 125	7	20

Lab Sample ID: 460-266968-D-3-F DU
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 871270

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: LCS 460-871301/3-A
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: 460-266440-E-6-G MS
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 870683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.07		ug/L		107	75 - 125

Lab Sample ID: 460-266440-E-6-H MSD
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 870683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.06		ug/L		106	75 - 125	0	20

Lab Sample ID: 460-266440-E-6-F DU
Matrix: Water
Analysis Batch: 870709

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 870683

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-871296/1-B
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 871301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/11/22 14:45	10/11/22 15:17	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 460-266972-D-1-F MS
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 871301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.02		ug/L		102	75 - 125

Lab Sample ID: 460-266972-D-1-E DU
Matrix: Water
Analysis Batch: 871337

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 871301

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

GC/MS VOA

Analysis Batch: 870628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8260D	
460-266752-10	TB_20221003	Total/NA	Water	8260D	
460-266826-5	TW-03_20221004	Total/NA	Water	8260D	
460-266826-6	TW-04_20221004	Total/NA	Water	8260D	
MB 460-870628/7	Method Blank	Total/NA	Water	8260D	
LCS 460-870628/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-870628/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 870989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8260D	
MB 460-870989/8	Method Blank	Total/NA	Water	8260D	
LCS 460-870989/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-870989/18	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 870235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3510C	
460-266752-9 - DL	TW-02_20221003	Total/NA	Water	3510C	
MB 460-870235/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870235/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870235/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 870337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8270E	870235
460-266752-9 - DL	TW-02_20221003	Total/NA	Water	8270E	870235
MB 460-870235/1-A	Method Blank	Total/NA	Water	8270E	870235
LCS 460-870235/2-A	Lab Control Sample	Total/NA	Water	8270E	870235
LCSD 460-870235/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	870235

Filtration Batch: 870439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-870439/1-B	Method Blank	Total/NA	Water	FILTRATION	

Prep Batch: 870445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Total/NA	Water	3510C	
460-266826-6	TW-04_20221004	Total/NA	Water	3510C	
MB 460-870439/1-B	Method Blank	Total/NA	Water	3510C	870439
MB 460-870445/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870445/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870445/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 870554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8270E	870657
MB 460-870657/1-A	Method Blank	Total/NA	Water	8270E	870657
LCS 460-870657/2-A	Lab Control Sample	Total/NA	Water	8270E	870657

GC/MS Semi VOA (Continued)

Analysis Batch: 870554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-870657/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	870657

Analysis Batch: 870558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Total/NA	Water	8270E	870445
460-266826-6	TW-04_20221004	Total/NA	Water	8270E	870445
MB 460-870439/1-B	Method Blank	Total/NA	Water	8270E	870445
MB 460-870445/1-A	Method Blank	Total/NA	Water	8270E	870445
LCS 460-870445/2-A	Lab Control Sample	Total/NA	Water	8270E	870445
LCSD 460-870445/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	870445

Prep Batch: 870657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	3510C	
MB 460-870657/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870657/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870657/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Prep Batch: 870353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3510C	
460-266826-5	TW-03_20221004	Total/NA	Water	3510C	
460-266826-6	TW-04_20221004	Total/NA	Water	3510C	
MB 460-870353/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870353/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870353/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 870354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3510C	
460-266826-5	TW-03_20221004	Total/NA	Water	3510C	
460-266826-6	TW-04_20221004	Total/NA	Water	3510C	
MB 460-870354/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870354/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870354/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 870370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8081B	870354
460-266826-5	TW-03_20221004	Total/NA	Water	8081B	870354
460-266826-6	TW-04_20221004	Total/NA	Water	8081B	870354
MB 460-870354/1-A	Method Blank	Total/NA	Water	8081B	870354
LCS 460-870354/2-A	Lab Control Sample	Total/NA	Water	8081B	870354
LCSD 460-870354/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	870354

Analysis Batch: 870405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	8082A	870353
460-266826-5	TW-03_20221004	Total/NA	Water	8082A	870353

GC Semi VOA (Continued)

Analysis Batch: 870405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-6	TW-04_20221004	Total/NA	Water	8082A	870353
MB 460-870353/1-A	Method Blank	Total/NA	Water	8082A	870353
LCS 460-870353/2-A	Lab Control Sample	Total/NA	Water	8082A	870353
LCSD 460-870353/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	870353

Prep Batch: 870664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	3510C	
MB 460-870664/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870664/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870664/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 870667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	3510C	
MB 460-870667/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-870667/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-870667/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-266842-J-4-B MS	Matrix Spike	Total/NA	Water	3510C	
460-266842-J-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 871010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8081B	870667
MB 460-870667/1-A	Method Blank	Total/NA	Water	8081B	870667
LCS 460-870667/2-A	Lab Control Sample	Total/NA	Water	8081B	870667
LCSD 460-870667/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	870667
460-266842-J-4-B MS	Matrix Spike	Total/NA	Water	8081B	870667
460-266842-J-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	8081B	870667

Analysis Batch: 871037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	8082A	870664
MB 460-870664/1-A	Method Blank	Total/NA	Water	8082A	870664
LCS 460-870664/2-A	Lab Control Sample	Total/NA	Water	8082A	870664
LCSD 460-870664/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	870664

Metals

Prep Batch: 870234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	7470A	
MB 460-870234/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-870234/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-266745-J-5-C MS	Matrix Spike	Total/NA	Water	7470A	
460-266745-J-5-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-266745-J-5-B DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 870271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	6020B	870341

Metals (Continued)

Analysis Batch: 870271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	6020B	870341
MB 460-870341/1-A	Method Blank	Total/NA	Water	6020B	870341
MB 460-870341/1-A	Method Blank	Total/NA	Water	6020B	870341
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	6020B	870341
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	6020B	870341
460-266752-9 MS	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 MS	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 DU	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 DU	TW-02_20221003	Dissolved	Water	6020B	870341

Analysis Batch: 870295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	7470A	870234
MB 460-870234/1-A	Method Blank	Total/NA	Water	7470A	870234
LCS 460-870234/2-A	Lab Control Sample	Total/NA	Water	7470A	870234
460-266745-J-5-C MS	Matrix Spike	Total/NA	Water	7470A	870234
460-266745-J-5-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	870234
460-266745-J-5-B DU	Duplicate	Total/NA	Water	7470A	870234

Prep Batch: 870341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	3010A	
MB 460-870341/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-266752-9 MS	TW-02_20221003	Dissolved	Water	3010A	
460-266752-9 DU	TW-02_20221003	Dissolved	Water	3010A	

Analysis Batch: 870468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	6020B	870341
MB 460-870341/1-A	Method Blank	Total/NA	Water	6020B	870341
LCS 460-870341/2-A	Lab Control Sample	Total/NA	Water	6020B	870341
460-266752-9 MS	TW-02_20221003	Dissolved	Water	6020B	870341
460-266752-9 DU	TW-02_20221003	Dissolved	Water	6020B	870341

Prep Batch: 870563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	3010A	
460-266826-5	TW-03_20221004	Total/NA	Water	3010A	
460-266826-6	TW-04_20221004	Total/NA	Water	3010A	
460-266877-3	TW-01_20221005	Total/NA	Water	3010A	
MB 460-870563/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-870563/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-266887-F-8-C MS	Matrix Spike	Total/NA	Water	3010A	
460-266887-F-8-B DU	Duplicate	Total/NA	Water	3010A	

Prep Batch: 870669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Total/NA	Water	7470A	
460-266826-6	TW-04_20221004	Total/NA	Water	7470A	
MB 460-870669/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 870669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-870669/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-266440-F-6-B MS	Matrix Spike	Total/NA	Water	7470A	
460-266440-G-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-266440-G-6-E DU	Duplicate	Total/NA	Water	7470A	

Filtration Batch: 870682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266440-E-6-G MS	Matrix Spike	Dissolved	Water	FILTRATION	
460-266440-E-6-H MSD	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	
460-266440-E-6-F DU	Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 870683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	7470A	
460-266826-5	TW-03_20221004	Dissolved	Water	7470A	
460-266826-6	TW-04_20221004	Dissolved	Water	7470A	
MB 460-870683/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-870683/3-A	Lab Control Sample	Total/NA	Water	7470A	
460-266440-E-6-G MS	Matrix Spike	Dissolved	Water	7470A	870682
460-266440-E-6-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	870682
460-266440-E-6-F DU	Duplicate	Dissolved	Water	7470A	870682

Analysis Batch: 870709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Dissolved	Water	7470A	870683
460-266826-5	TW-03_20221004	Dissolved	Water	7470A	870683
460-266826-5	TW-03_20221004	Total/NA	Water	7470A	870669
460-266826-6	TW-04_20221004	Dissolved	Water	7470A	870683
460-266826-6	TW-04_20221004	Total/NA	Water	7470A	870669
MB 460-870669/1-A	Method Blank	Total/NA	Water	7470A	870669
MB 460-870683/1-A	Method Blank	Total/NA	Water	7470A	870683
LCS 460-870669/2-A	Lab Control Sample	Total/NA	Water	7470A	870669
LCS 460-870683/3-A	Lab Control Sample	Total/NA	Water	7470A	870683
460-266440-E-6-G MS	Matrix Spike	Dissolved	Water	7470A	870683
460-266440-E-6-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	870683
460-266440-F-6-B MS	Matrix Spike	Total/NA	Water	7470A	870669
460-266440-G-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	870669
460-266440-E-6-F DU	Duplicate	Dissolved	Water	7470A	870683
460-266440-G-6-E DU	Duplicate	Total/NA	Water	7470A	870669

Analysis Batch: 870930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266752-9	TW-02_20221003	Total/NA	Water	6020B	870563
460-266826-5	TW-03_20221004	Total/NA	Water	6020B	870563
460-266826-6	TW-04_20221004	Total/NA	Water	6020B	870563
460-266877-3	TW-01_20221005	Total/NA	Water	6020B	870563
460-266877-3	TW-01_20221005	Total/NA	Water	6020B	870563
MB 460-870563/1-A	Method Blank	Total/NA	Water	6020B	870563
LCS 460-870563/2-A	Lab Control Sample	Total/NA	Water	6020B	870563
460-266887-F-8-C MS	Matrix Spike	Total/NA	Water	6020B	870563
460-266887-F-8-B DU	Duplicate	Total/NA	Water	6020B	870563

Metals

Analysis Batch: 871052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Dissolved	Water	6020B	871155
460-266826-6	TW-04_20221004	Dissolved	Water	6020B	871155
460-266877-3	TW-01_20221005	Dissolved	Water	6020B	871155
MB 460-871155/19-A	Method Blank	Total/NA	Water	6020B	871155
LCS 460-871155/20-A	Lab Control Sample	Total/NA	Water	6020B	871155
460-266466-F-1-C MS	Matrix Spike	Dissolved	Water	6020B	871155
460-266466-F-1-B DU	Duplicate	Dissolved	Water	6020B	871155

Filtration Batch: 871154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	FILTRATION	

Prep Batch: 871155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Dissolved	Water	3010A	
460-266826-6	TW-04_20221004	Dissolved	Water	3010A	
460-266877-3	TW-01_20221005	Dissolved	Water	3010A	871154
MB 460-871155/19-A	Method Blank	Total/NA	Water	3010A	
LCS 460-871155/20-A	Lab Control Sample	Total/NA	Water	3010A	
460-266466-F-1-C MS	Matrix Spike	Dissolved	Water	3010A	
460-266466-F-1-B DU	Duplicate	Dissolved	Water	3010A	

Analysis Batch: 871269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266826-5	TW-03_20221004	Dissolved	Water	6020B	871155
460-266826-6	TW-04_20221004	Dissolved	Water	6020B	871155
MB 460-871155/19-A	Method Blank	Total/NA	Water	6020B	871155
LCS 460-871155/20-A	Lab Control Sample	Total/NA	Water	6020B	871155
460-266466-F-1-B DU	Duplicate	Dissolved	Water	6020B	871155

Prep Batch: 871270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Total/NA	Water	7470A	
MB 460-871270/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-871270/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-266968-D-3-G MS	Matrix Spike	Total/NA	Water	7470A	
460-266968-D-3-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-266968-D-3-F DU	Duplicate	Total/NA	Water	7470A	

Filtration Batch: 871296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	FILTRATION	
MB 460-871296/1-B	Method Blank	Dissolved	Water	FILTRATION	
460-266972-D-1-F MS	Matrix Spike	Dissolved	Water	FILTRATION	
460-266972-D-1-E DU	Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 871301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	7470A	871296
MB 460-871296/1-B	Method Blank	Dissolved	Water	7470A	871296
LCS 460-871301/3-A	Lab Control Sample	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 871301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266972-D-1-F MS	Matrix Spike	Dissolved	Water	7470A	871296
460-266972-D-1-E DU	Duplicate	Dissolved	Water	7470A	871296

Analysis Batch: 871337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266877-3	TW-01_20221005	Dissolved	Water	7470A	871301
460-266877-3	TW-01_20221005	Total/NA	Water	7470A	871270
MB 460-871270/1-A	Method Blank	Total/NA	Water	7470A	871270
MB 460-871296/1-B	Method Blank	Dissolved	Water	7470A	871301
LCS 460-871270/2-A	Lab Control Sample	Total/NA	Water	7470A	871270
LCS 460-871301/3-A	Lab Control Sample	Total/NA	Water	7470A	871301
460-266968-D-3-G MS	Matrix Spike	Total/NA	Water	7470A	871270
460-266968-D-3-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	871270
460-266972-D-1-F MS	Matrix Spike	Dissolved	Water	7470A	871301
460-266968-D-3-F DU	Duplicate	Total/NA	Water	7470A	871270
460-266972-D-1-E DU	Duplicate	Dissolved	Water	7470A	871301

Analysis Batch: 871758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-266466-F-1-C MS	Matrix Spike	Dissolved	Water	6020B	871155

Client Sample ID: TW-02_20221003
Lab Sample ID: 460-266752-9
Date Collected: 10/03/22 11:30
Matrix: Water
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 15:12
Total/NA	Prep	3510C			870235	ZEH	EET EDI	10/05/22 10:48
Total/NA	Analysis	8270E		1	870337	MME	EET EDI	10/06/22 05:09
Total/NA	Prep	3510C	DL		870235	ZEH	EET EDI	10/05/22 10:48
Total/NA	Analysis	8270E	DL	5	870337	MME	EET EDI	10/06/22 07:37
Total/NA	Prep	3510C			870354	JMS	EET EDI	10/05/22 23:06
Total/NA	Analysis	8081B		1	870370	FAM	EET EDI	10/06/22 07:27
Total/NA	Prep	3510C			870353	JMS	EET EDI	10/05/22 22:53
Total/NA	Analysis	8082A		1	870405	JHP	EET EDI	10/06/22 11:30
Dissolved	Prep	3010A			870341	VAD	EET EDI	10/05/22 21:01
Dissolved	Analysis	6020B		1	870271	YZH	EET EDI	10/05/22 23:30
Dissolved	Prep	3010A			870341	VAD	EET EDI	10/05/22 21:01
Dissolved	Analysis	6020B		1	870271	YZH	EET EDI	10/06/22 01:45
Dissolved	Prep	3010A			870341	VAD	EET EDI	10/05/22 21:01
Dissolved	Analysis	6020B		1	870468	MDC	EET EDI	10/06/22 20:55
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:29
Dissolved	Prep	7470A			870683	RBS	EET EDI	10/07/22 14:18
Dissolved	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 15:41
Total/NA	Prep	7470A			870234	RBS	EET EDI	10/05/22 10:46
Total/NA	Analysis	7470A		1	870295	RBS	EET EDI	10/05/22 14:07

Client Sample ID: TB_20221003
Lab Sample ID: 460-266752-10
Date Collected: 10/03/22 14:30
Matrix: Water
Date Received: 10/03/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 15:33

Client Sample ID: TW-03_20221004
Lab Sample ID: 460-266826-5
Date Collected: 10/04/22 00:00
Matrix: Water
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 15:54
Total/NA	Prep	3510C			870445	NMP	EET EDI	10/06/22 10:27
Total/NA	Analysis	8270E		1	870558	MME	EET EDI	10/07/22 03:03
Total/NA	Prep	3510C			870354	JMS	EET EDI	10/05/22 23:06
Total/NA	Analysis	8081B		1	870370	FAM	EET EDI	10/06/22 06:55
Total/NA	Prep	3510C			870353	JMS	EET EDI	10/05/22 22:53
Total/NA	Analysis	8082A		1	870405	JHP	EET EDI	10/06/22 10:57
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 22:33
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871269	MDC	EET EDI	10/11/22 20:10

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Client Sample ID: TW-03_20221004
Lab Sample ID: 460-266826-5
Date Collected: 10/04/22 00:00
Matrix: Water
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:32
Dissolved	Prep	7470A			870683	RBS	EET EDI	10/07/22 14:18
Dissolved	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 15:42
Total/NA	Prep	7470A			870669	RBS	EET EDI	10/07/22 11:23
Total/NA	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 14:25

Client Sample ID: TW-04_20221004
Lab Sample ID: 460-266826-6
Date Collected: 10/04/22 00:00
Matrix: Water
Date Received: 10/04/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870628	SZD	EET EDI	10/07/22 16:16
Total/NA	Prep	3510C			870445	NMP	EET EDI	10/06/22 10:27
Total/NA	Analysis	8270E		1	870558	MME	EET EDI	10/07/22 03:24
Total/NA	Prep	3510C			870354	JMS	EET EDI	10/05/22 23:06
Total/NA	Analysis	8081B		1	870370	FAM	EET EDI	10/06/22 07:11
Total/NA	Prep	3510C			870353	JMS	EET EDI	10/05/22 22:53
Total/NA	Analysis	8082A		1	870405	JHP	EET EDI	10/06/22 11:14
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 22:35
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871269	MDC	EET EDI	10/11/22 20:13
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:34
Dissolved	Prep	7470A			870683	RBS	EET EDI	10/07/22 14:18
Dissolved	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 15:44
Total/NA	Prep	7470A			870669	RBS	EET EDI	10/07/22 11:23
Total/NA	Analysis	7470A		1	870709	RBS	EET EDI	10/07/22 14:30

Client Sample ID: TW-01_20221005
Lab Sample ID: 460-266877-3
Date Collected: 10/05/22 10:30
Matrix: Water
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	870989	SZD	EET EDI	10/10/22 11:01
Total/NA	Prep	3510C			870657	NMP	EET EDI	10/07/22 10:38
Total/NA	Analysis	8270E		1	870554	YAH	EET EDI	10/08/22 07:05
Total/NA	Prep	3510C			870667	OTS	EET EDI	10/07/22 11:20
Total/NA	Analysis	8081B		1	871010	JHP	EET EDI	10/10/22 12:11
Total/NA	Prep	3510C			870664	OTS	EET EDI	10/07/22 11:11
Total/NA	Analysis	8082A		1	871037	JHP	EET EDI	10/10/22 11:40
Dissolved	Filtration	FILTRATION			871154	VAD	EET EDI	10/10/22 20:26
Dissolved	Prep	3010A			871155	VAD	EET EDI	10/10/22 20:34
Dissolved	Analysis	6020B		1	871052	MDC	EET EDI	10/10/22 23:21

Lab Chronicle

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Client Sample ID: TW-01_20221005
Lab Sample ID: 460-266877-3

Date Collected: 10/05/22 10:30
Matrix: Water
Date Received: 10/05/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		1	870930	MDC	EET EDI	10/09/22 14:37
Total/NA	Prep	3010A			870563	GAE	EET EDI	10/06/22 19:16
Total/NA	Analysis	6020B		5	870930	MDC	EET EDI	10/09/22 14:44
Dissolved	Filtration	FILTRATION			871296	RBS	EET EDI	10/11/22 14:30
Dissolved	Prep	7470A			871301	RBS	EET EDI	10/11/22 14:45
Dissolved	Analysis	7470A		1	871337	RBS	EET EDI	10/11/22 15:31
Total/NA	Prep	7470A			871270	RBS	EET EDI	10/11/22 11:10
Total/NA	Analysis	7470A		1	871337	RBS	EET EDI	10/11/22 14:36

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-266752-2
Project/Site: Ikos Senior Living

Laboratory: Eurofins Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270E	3510C	Water	3 & 4 Methylphenol

Method Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
FILTRATION	Sample Filtration	None	EET EDI

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AKRF Inc
Project/Site: Ikos Senior Living

Job ID: 460-266752-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-266752-9	TW-02_20221003	Water	10/03/22 11:30	10/03/22 19:00
460-266752-10	TB_20221003	Water	10/03/22 14:30	10/03/22 19:00
460-266826-5	TW-03_20221004	Water	10/04/22 00:00	10/04/22 18:30
460-266826-6	TW-04_20221004	Water	10/04/22 00:00	10/04/22 18:30
460-266877-3	TW-01_20221005	Water	10/05/22 10:30	10/05/22 18:00

Chain of Custody Record

611419

eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

266877

TAL-8210

Client Contact	Project Manager: Alyssa Brzychkowski	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 1 of 2 COCs
Company Name: AKRF, Inc.	Tel/Email: abrzychkowski@akrf.com	Lab Contact: M. Thuss	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
City/State/Zip: New York, NY 10016	TAT if different from Below: Standard			Walk-in Client:
Phone: 646 388 9533	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Fax:				Job / SDG No.:
Project Name: IHOS				
Site: Astoria Queens, NY				
P O # 216134				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260-TCL/Add 2 VOCs	8082A - PCBs	7471B - mercury	6010B - TAL metals	8270E - TCL/Add 2 SVOCs	+1,4-Dioxane	7196A - Hex Chrom 3196	Sample Specific Notes:
SB-01_0-2_20221005	10/5/22	0810	G	S	6	N	N	X	X	X	X	X	X	X	1
SB-01_31-33_20221005	↓	0815	G	S	6	N	N	X	X	X	X	X	X	X	2

SHORT HOLD

2 2 2 2

460-266877 Chain of Custody

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Category A Deliverable - EQuIS EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____
Relinquished by: Tom Gordon	Company: AKRF, Inc	Date/Time: 10/5/2022	Received by:	Company: FAL	Date/Time: 10/5/22 1145
Relinquished by:	Company: FAL	Date/Time: 10/5/1600	Received by:	Company: FAL	Date/Time: 10/5/22 1700
Relinquished by:	Company: FAL	Date/Time: 10/5/22 1800	Received in Laboratory by:	Company: TAL	Date/Time: 10/5/22 1800

10/14/2022

26284 26232

Chain of Custody Record

611418

eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

266817

TAL-8210

Client Contact	Project Manager: Asya Rychkov	Site Contact: T. Gordon	Date: 10/5/2022	COC No: 8 of 2 COCs
Company Name: AKRF Inc.	Tel/Email: arychkov@akrf.com	Lab Contact: M-Hua	Carrier:	Sampler:
Address: 440 Park Avenue South 7th Fl	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: New York, NY 10016	☐ CALENDAR DAYS ☒ WORKING DAYS			Walk-in Client:
Phone: 646-388-9533	TAT if different from Below: Standard			Lab Sampling:
Fax:	☐ 2 weeks			Job / SDG No.:
Project Name: Illos	☒ 1 week			
Site: Astoria, Queens, NY	☐ 2 days			
P O # 210124	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8081B - TCL/Nat 375 Pest	8260B - TCL/Nat 375 ONLY	8270E - TCL/Nat 375 ONLY + 1,4-Dioxane	Geo 2013 - TAL Metals	7470A - Mercury	Geo 2013 - Dissolved TAL EE	7470A - Dissolved mercury EE	8260D - TCL/Nat 375 VOC	Sample Specific Notes:
TW-01_GW22Low	10/5/22	1030	G	GW	11	Y	N	X	X	X	X	X	X	X	X	3

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Category A Deliverables / EQUIS EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1	Tom Gordon	AKRF Inc	10/5/22			
2			1945/22			10/6/22 1045 1320
3			1052 1800	Received in Laboratory by:	Company:	Date/Time: 10/6/22 1800

26 2RQ 26 2209

10/14/2022

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Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 266877

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.6 °C	2.6 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
3				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ Date: 10/5/22

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-2

Login Number: 266752
List Number: 1
Creator: Narinkhum, Nudjarin 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-2

Login Number: 266826
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-266752-2

Login Number: 266877
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

IKOS Senior Living
31-07 31st Street
QUEENS, NEW YORK

Remedial Investigation Report

OER Project Number: 24TMP1507Q

E-Designation: E-1001

Prepared For:

Ikos Senior Living LLC
48-02 25th Avenue, Suite 400
Astoria, NY 11103

Prepared By:

AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, New York 10016
(212) 696-0670

JANUARY 2025

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Appendix D – Groundwater Sampling Log
Appendix E – Soil Vapor Sampling Logs
Appendix F – Laboratory Data Deliverables

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Deborah Shapiro, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 31-07 31st Street Site, (NYC VCP Site No. site number). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The Remedial Investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 31-07 31st Street in the Astoria section of Queens, New York and is identified as Block 611 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 20,880-square feet and is bounded by commercial uses to the north, residential and institutional uses to the south, commercial uses, residential uses, and 32nd Street to the east, and 31st Street and an elevated subway station to the west. A map of the Site boundary is shown in Figure 2. Currently, the Site is used as a municipal, asphalt-paved parking lot and is not developed with any permanent structures.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of the construction of two new buildings: a 13-story mixed-use building with approximately 167 affordable senior residential units and partial cellar level is proposed along 31st Street, and a three-story community facility building with slab-on-grade is proposed on 32nd Street. The two buildings will be connected through a one-story community room. Excavation will be required to approximately 12 feet below grade for the cellar level, to approximately 6 feet below grade for the crawl space, and to approximately 2 feet below grade for the slab-on-grade portion and outside the building footprint. Layout of the proposed site development is presented in Figure 2. The Site will be rezoned from a R5 with a C1-2 overlay to a C4-5 district along 31st Street and from R5 to C4-2A along 32nd Street.

Summary of Past Uses of Site and Areas of Concern

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Site, specifically Sanborn Fire Insurance Maps in multiple years between 1898 and 2006. In 1898 and 1915, the Site was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Site. In 1936, the Site remained mostly unchanged except for the addition of a one-car garage to the east of the previously identified dwelling. The Site continued as unchanged until 1979-1896, when the identified dwelling was no longer depicted on the Site, while the one-car garage remained. The western portion of the Site was now identified as parking. In 1988-1989 the Site was developed in its current configuration, as the one-car garage was no longer identified on the Site, and the entirety of the Site was labeled as parking.

The following environmental issues are considered Areas of Concern (AOCs) for the Site:

1. Elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) exceeding the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) in soil. The samples exhibiting the highest concentrations were generally encountered in the northeastern portion of the Site.
2. Elevated concentrations of chlorinated solvents in groundwater and soil vapor samples. The samples exhibiting the highest concentrations in groundwater were generally encountered in the central portions of the Site and the highest concentration in soil vapor was detected in the southern portion of the Site.

Summary of the Work Performed under the Remedial Investigation

On behalf of Ikos Senior Living LLC, AKRF performed the following scope of work in general accordance with the OER-approved Phase II Work Plan, dated November 2024:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed nine soil borings across the Site, and collected 23 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes and collected three soil vapor samples for chemical analysis.

Summary of Environmental Findings

1. Based on the U.S. Geological Survey, Central Park, New York 2013 Quadrangle map, the Site lies at approximately 50 feet above mean sea level, with the general surrounding area topography gently sloping down in a westerly direction towards the East River. Based on an architectural survey dated September 2021, elevation of the property ranges from 49 to 57 feet above mean sea level.
2. The depth to groundwater was measured using a Solinst® oil/water interface probe. Depth to groundwater beneath the Site ranged from approximately 31.40 feet below grade in the eastern portion of the Site at temporary well TW-08 to 35.06 feet below grade in the southwestern portion of the Site at temporary well TW-10.
3. Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in this portion of Queens is not used as a source of potable water.
4. Based on USGS mapping, bedrock is expected at approximately 50 to 60 feet below grade in this area of Queens.
5. The stratigraphy of the Site consists of fill (consisting of brown sand, silt, and gravel, with varying amounts of brick, asphalt, and concrete) down to approximately 3 to 11 feet below grade, underlain by apparent native sand with trace to little amounts of gravel to the boring terminus.
6. Twenty-three soil samples were collected for laboratory analysis during this investigation. The analytical results for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides and metals were compared to the NYSDEC UUSCOs and RRSCOs. One sample (SB-08_0-2_20241213) was also analyzed for PFAS, and the analytical results were compared to the Unrestricted Use Guidance Values (UUGVs) and the Restricted Residential Guidance Values (RRGVs) as outlined in NYSDEC's *Sampling, Analysis and Assessment of PFAS* guidance dated April 2023. The results are summarized below:
    - VOCs were detected at concentrations up to 0.087 milligrams per kilogram (mg/kg), below the UUSCOs and RRSCOs.
    - Six SVOCs [benzo(a)anthracene (max. 2.8 mg/kg), benzo(a)pyrene (max. 2.7 mg/kg), benzo(b)fluoranthene (max. 3.8 mg/kg), benzo(k)fluoranthene (max. 1.4 mg/kg), chrysene (max. 2.8 mg/kg), and indeno(1,2,3-c,d)pyrene (max. 1.4 mg/kg)] were detected above the UUSCOs and/or RRSCOs in five soil samples.

- The following four metals were detected above their respective UUSCOs in one or more of the soil samples: copper (max. 62.3 mg/kg), lead (max. 379 mg/kg), mercury (max. 0.27 mg/kg), and zinc (max. 173 mg/kg). No metals were detected above the RRSCOs.
- PCBs were not detected above laboratory reporting limits in any of the soil samples analyzed during the investigation.
- The pesticides P,P'-DDE and P,P'-DDT were detected in one sample at concentrations of 0.004 mg/kg and 0.008 mg/kg, respectively, above the UUSCO of 0.0033 mg/kg, but below their respective RRSCOs.
- Perfluorooctanesulfonic acid (PFOS) was detected in the soil sample analyzed (SB-08_0-2_20241213) at a concentration of 2.17 parts per billion (ppb), above the UUSCO guidance value of 0.88 ppb, but below the RRSCO guidance value of 44 ppb. Perfluorooctanoic acid (PFOA) and 1,4-dioxane were not detected above laboratory reporting limits.

7. Three groundwater samples were collected during the RI for laboratory analysis from the three temporary monitoring wells (TW-08 through TW-10). Groundwater sample analytical results for VOCs, SVOCs, PCBs, pesticides, metals (total and dissolved), and 1,4-dioxane were compared to the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs), which were developed based on use as a source of drinking water, although groundwater in this portion of Queens is not used as a source of potable water. The results are summarized below:
    - Six VOCs [bromodichloromethane, chloroform, cis-1,2-dichloroethylene, dibromochloromethane, tetrachloroethylene (PCE), and trichloroethylene (TCE)] were detected in one or more groundwater samples at concentrations ranging from 0.34 micrograms per liter (µg/L) of bromodichloromethane to 310 µg/L of PCE. PCE was detected in all three groundwater samples at concentrations ranging from 60 to 310 µg/L, above the AWQSGV of 5 µg/L.
    - Three SVOCs, 1,4-dioxane, caprolactam, and di-n-butyl phthalate, were detected in one or more of the groundwater samples at concentrations up to 21 µg/L, below their respective AWQSGVs.
    - The following 14 metals were detected above the AWQSGVs in one or more of the total (unfiltered) samples: arsenic (max. 73.3 µg/L), barium (max. 4,580 µg/L), beryllium (max. 14 µg/L), total chromium (max. 1,350 µg/L), copper (max. 1,000 µg/L), iron (max. 667,000 µg/L), lead (max. 707 µg/L), magnesium (max. 370,000 µg/L), manganese (max. 18,400 µg/L), mercury (max. 1.1 µg/L), nickel (max. 814 µg/L), sodium (max. 123,000 µg/L), thallium (max. 1.6 µg/L), and zinc (max. 2,040 µg/L). Manganese and sodium were also detected above the AWQSGVs in the dissolved (filtered) groundwater samples.
    - No PCBs or pesticides were detected above laboratory reporting limits in any of the groundwater samples.
    - 1,4-Dioxane was detected in two groundwater samples at concentrations up to 0.13 µg/L, below the AWQSGV of 0.35 µg/L.
8. Three soil vapor samples were collected for laboratory analysis during the RI from the three temporary soil vapor points. Soil vapor samples were analyzed by EPA Method TO-15 for VOCs and results were compared to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion matrices dated October 2006 (updated May 2017 and February 2024). The results are as follows.
    - Petroleum-related VOCs were detected at concentrations ranging from 2.3 micrograms per cubic meter (µg/m^3) to 66 µg/m^3.

- Solvent-related VOCs were detected at concentrations ranging from 1.4 µg/m^3 to 25 µg/m^3.
- No compounds were detected above the NYSDOH Soil Vapor/Indoor Air Matrices requiring mitigation, regardless of indoor air concentration.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

The 31-07 31st Street Site has been assigned an E-Designation to investigate and remediate an approximately 0.48-acre site located in the Astoria section of Queens, New York. Residential use is proposed for the property. The Remedial Investigation (RI) work was performed between December 11 and 13, 2024 in accordance with the November 2024 Phase II Work Plan (Work Plan). This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 31-07 31st Street in the Astoria section of Queens, New York and is identified as Block 611 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 20,880-square feet and is bounded by commercial uses to the north, residential and institutional uses to the south, commercial uses, residential uses, and 32nd Street to the east, and 31st Street and an elevated subway station to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is used as a municipal, asphalt-paved parking lot and is not developed with any permanent structures.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of the construction of two new buildings: a 13-story residential building with approximately 167 affordable senior residential units and partial cellar level is proposed along 31st Street, and a three-story community facility building with full cellar level is proposed on 32nd Street. The two buildings will be connected through a one-story community room. Excavation will be required to approximately 12 feet below grade for the cellar level, to approximately 6 feet below grade for the crawl space, and to approximately 2 feet below grade for the slab-on-grade portion and outside the building footprint. Layout of the proposed site development is presented in Figure 2. The Site will be rezoned from R5 with a C1-2 overlay to a C4-5 district along 31st Street and from R5 to C4-2A along 32nd Street.

1.3 Description of Surrounding Property

The Site is abutted to the north by commercial/retail units, followed by Broadway; to the west by 31st Street and an elevated subway station, followed by commercial/retail and residential units; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by retail and commercial units; and to the east by residential units and 32nd Street. The greater surrounding area was primarily commercial/retail, residential, and transit uses.

One sensitive receptor is located within 500 feet of the Site: The Learning Experience daycare located at 31-57 31st Street is approximately 330 feet north-northeast of the Site.

Figure 3 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Site, specifically Sanborn Fire Insurance Maps in multiple years between 1898 and 2006. In 1898 and 1915, the Site was depicted as multiple vacant lots with one dwelling and associated shed located on the northern portion of the Site. In 1936, the Site remained mostly unchanged except for the addition of a one-car garage to the east of the previously identified dwelling. The Site continued as unchanged until 1979-1896, when the identified dwelling was no longer depicted on the Site, while the one-car garage remained. The western portion of the Site was now identified as parking. In 1988-1989 the Site was developed in its current configuration, as the one-car garage was no longer identified on the Site, and the entirety of the Site was labeled as parking.

Sanborn maps identified primarily residential and commercial historical uses, adjacent to the Site and surrounding area. Some of the pertinent commercial listings between circa 1936 and 2006 included a filling station located north-northeast of the Site; a garage and auto repair shop with gasoline tanks located northwest of the Site; a dry cleaners located northeast of the Site; and a machine shop and warehouse located southwest of the Site.

2.2 Previous Investigations

Previous reports prepared for the Site are included in Appendix A and summarized below.

Phase I Environmental Site Assessment – 31-07 31st Street, Astoria, NY, AKRF, Inc., June 2021

AKRF prepared a Phase I Environmental Site Assessment (ESA) for the Site in June 2021 in accordance with the requirements of American Society for Testing and Materials (ASTM) Standard E1527-13 (the applicable standard at that time). At the time of AKRF's assessment, the Site was occupied by a municipal parking lot with no structures. The Phase I ESA included a review of current and historical Sanborn Fire Insurance maps; state and federal environmental regulatory databases; local records; and reconnaissance of the Site and its surroundings. Based on the findings of the Phase I ESA, the following Recognized Environmental Conditions (RECs) and De Minimus conditions were identified:

- One groundwater monitoring well was observed on the 31st Street sidewalk west-adjacent of the Site.
- Sanborn maps, city directories, and the environmental databases reviewed identified automotive and dry-cleaning uses in the surrounding area.

AKRF identified the following Business Environmental Risks (BERs) outside the scope of ASTM E1527-13:

- Buried demolition debris from former on-site structures could contain asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), and/or underground storage tanks.
- Three five-gallon containers of orphan waste were located on the southeastern-most corner of the Site. Two of the three containers were labeled as kerosene and lacquer; the third container was unmarked.

Subsurface (Phase II) Investigation Report – 31-07 31st Street, Astoria, NY, AKRF, Inc., January 2024

AKRF conducted a Phase II investigation at the Site in October 2022 in accordance with a New York City Department of Environmental Protection (NYCDEP)-approved Phase II Work Plan, dated June 2022. Field activities included a geophysical survey, the advancement of seven soil borings, and the installation of four temporary wells and five soil vapor probes, with the collection of 14 soil samples, 4 groundwater samples, and 5 soil vapor samples for laboratory analysis. A summary of the findings is provided below:

- Fill material was encountered at depths ranging from just below surface grade down to approximately 5 to 14 feet below grade. The fill material was underlain by apparent native material consisting of sand and gravel. Groundwater, as measured from the temporary wells, was encountered between approximately 30.3 and 36.6 feet below grade. No field evidence of contamination was noted in the soil borings or groundwater samples.
- Two soil samples were collected from each boring and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and metals. The 14 soil samples were compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Use Soil Cleanup Objectives (RRSCOs). Acetone was detected above the UUSCO in two samples; no VOCs were detected above the RRSCOs. Seven SVOCs were detected above the UUSCOs and/or RRSCOs, including benzo(a)anthracene [max. 25 milligrams per kilogram (mg/kg)], benzo(a)pyrene (max. 23 mg/kg), benzo(b)fluoranthene (max. 29 mg/kg), benzo(k)fluoranthene (max. 7.6 mg/kg), chrysene (max. 23 mg/kg), dibenz(a,h)anthracene (max 2.7 mg/kg), and indeno(1,2,3-c-d)pyrene (max. 17 mg/kg). Four metals were detected in up to four samples above their UUSCOs, but below the RRSCOs, including copper (max. 63.1 mg/kg), lead (max. 283 mg/kg), mercury (max. 0.59 mg/kg), and zinc (max. 149 mg/kg). The pesticide P,P'-DDT was detected in sample SB-05_0-2_20221004 at a concentration of 0.0063 mg/kg above the UUSCO of 0.0033 mg/kg, but below the RRSCO.
- Four groundwater samples were collected from temporary wells TW-01 through TW-04 (installed in borings SB-01 through SB-04) and analyzed for VOCs, SVOCs, PCBs, pesticides, and metals (total and dissolved). Three VOCs [tetrachloroethylene (PCE) (max. 330 micrograms per liter (µg/L)], cis-1,2-dichloroethene (max. 14 µg/L), and chloroform (max. 9.2 µg/L)] were detected in at least one of the four samples above the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs). Six SVOCs, including benzo(a)anthracene (max. 2.1 µg/L), benzo(a)pyrene (max. 1.6 µg/L), benzo(b)fluoranthene (max. 2.2 µg/L), bis(2-ethylhexyl) phthalate (max. 6.2 µg/L), chrysene (max 2 µg/L), and indeno(1,2,3-c-d)pyrene (max. 1.6 µg/L), were detected in sample TW-01_20221005 at concentrations above the AWQSGVs. In the unfiltered (total) metals analysis, 14 metals were detected at concentrations above the AWQSGVs, including arsenic (max. 62.9 µg/L), barium (max. 3,540 µg/L), beryllium (max. 14.2 µg/L), chromium, total (max. 3,390 µg/L), copper (max. 1,340 µg/L), iron (max. 971,000 µg/L), lead (max. 857 µg/L), magnesium (max. 355,000 µg/L), manganese (max. 24,600 µg/L), mercury (max. 1.7 µg/L), nickel (max. 922 µg/L), sodium (max. 140,000 µg/L), thallium (max. 5.1 µg/L), and zinc (max. 2,640 µg/L). In the filtered (dissolved) metals analysis, four metals, including iron (max. 1,630 µg/L), magnesium (max. 45,900 µg/L), manganese (max. 450 µg/L), and sodium (max. 141,000 µg/L) were detected at concentrations above the AWQSGVs. No PCBs or pesticides were detected above laboratory reporting limits in the groundwater samples.

- Several solvent-related VOCs [including PCE (max 1,900 µg/L), trichloroethylene (TCE) (max. 45 µg/L), and cis-1,2-dichloroethylene (max. 200 µg/L)] were detected in the soil vapor samples. Petroleum-related VOCs benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) were detected in up to all five soil vapor samples at concentrations up to 29 µg/m^3 (toluene in SV-04_20221003).

2.3 Site Inspection

On December 12, 2024, Mr. Stephen Schmid and Mr. Jonas Peters of AKRF conducted a reconnaissance of the Site as part of the RI. The weather was rainy and approximately 56 °F, with generally good visibility. Some of the parking spaces were occupied by vehicles. As a result, surface conditions of the Site were not fully visible during inspection.

At the time of the inspection, the Site consisted of a municipal parking lot for short-term parking and was generally bounded by commercial/retail units to the north, residential/commercial units to the south, residential units and 32nd Street to the east, and 31st Street/an elevated subway station to the west.

The asphalt pavement of the lot was in fair condition, with some surficial cracking and patches observed. Several pole lights and traffic barriers were observed on Site. No other above-grade structures were observed on the Site. Three apparent storm drains were observed and were connected to the municipal sewer system. Utility manholes were observed along 31st Street and 32nd Street.

No pits, ponds, or lagoons exhibiting evidence (e.g., discolored water, distressed vegetation, obvious wastewater discharge) of holding liquids or sludge containing hazardous substances or petroleum products were observed on the Site.

2.4 Areas of Concern

The following environmental issues discussed in Section 2.2 are considered Areas of Concern (AOCs) for the Site:

1. Elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) exceeding the UUSCOs and RRSCOs in soil samples. The samples exhibiting the highest concentrations were generally encountered in the northeastern portion of the Site.
2. Elevated concentrations of chlorinated solvents in groundwater and soil vapor samples. The samples exhibiting the highest concentrations in groundwater were generally encountered in the central portions of the Site and the highest concentration in soil vapor was detected in the southern portion of the Site.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Deborah Shapiro.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and Occupational Safety and Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements. The work described in this RIR was also performed in accordance with a site-specific Health and Safety Plan (HASP).

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

On behalf of Ikos Senior Living LLC, AKRF performed the following scope of work in general accordance with the OER-approved Phase II Work Plan, dated November 2024:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed nine soil borings across the Site, and collected 23 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes and collected three soil vapor samples for chemical analysis.

4.1 Geophysical Investigation

On December 11, 2024, a geophysical survey was conducted by Coastal Environmental Solutions, Inc (Coastal) of Long Beach, New York across accessible areas of the Site, to clear the proposed soil boring locations for subsurface utilities and/or structures. The geophysical survey included electromagnetic (EM) and ground penetrating radar (GPR) methods. During the geophysical survey, multiple shallow electrical lines associated with on-site lighting and parking meters were located and marked with spray paint. Several manholes connected to the municipal sewer system were also identified. The geophysical investigation report is attached as Appendix B. In addition to the geophysical survey, Coastal, the drilling contractor, notified Dig Safely New York at least 3 days prior to the start of the intrusive investigation work.

4.2 Borings and Monitoring Wells

4.2.1 Drilling and Soil Logging

On December 11 through 13, 2024, Coastal advanced eight soil borings (SB-04, and SB-08 through SB-15). The borings were advanced continuously using a track-mounted Geoprobe® Direct Push Probe (DPP) drill rig at the locations shown on Figure 2.

The borings were advanced to enable collection of soil samples from the proposed excavation depths and delineate contamination identified during the previous Phase II investigation. Soil borings SB-04 and SB-13 through SB-15 were advanced to approximately 5 feet below grade (bg), soil boring SB-11 was advanced to approximately 10 feet bg, soil boring SB-12 was advanced to approximately 15 feet bg, and soil borings SB-08 through SB-10 were advanced to approximately 40 feet bg (approximately 5 to 7 feet below the groundwater interface) to facilitate installation of temporary wells and collection of groundwater samples. During sampling at each boring location, soil samples were collected in five-foot long, two-inch diameter, stainless steel macrocore piston rod samplers fitted with dedicated internal acetate liners. Each core was split lengthwise and field-screened by AKRF personnel for organic vapors using a photoionization detector (PID), which measures relative concentrations of VOCs. The PID was calibrated at the start of each workday with 100 parts per million (ppm) isobutylene gas and fresh air in accordance with the manufacturer's specifications. Soil cores were also screened for visual and olfactory impacts (e.g., staining, sheen, or odor) prior to the collection of environmental samples, and logged using the modified Burmeister Classification System. All field work activities were recorded in a field book and on soil boring logs.

Soil boring locations are shown on Figure 2. Boring logs are included in Appendix C.

4.2.2 Groundwater Monitoring Well Construction

Three temporary monitoring wells (TW-08 through TW-10) were installed by Coastal on December 12 and 13, 2024. Soil borings advanced at the Site were retrofitted with 1-inch-diameter temporary wells constructed of polyvinyl chloride (PVC). Each temporary well consisted of 10-feet of 0.020-slotted well screen which extended approximately 5 feet into the groundwater table and a solid riser to grade. The annular space between the well screen and borehole was backfilled with No.2 Morie sand.

The temporary monitoring wells were sampled using dedicated high-density polyethylene (HDPE) tubing and a submersible pump. The wells were purged of a minimum of three well volumes prior to sampling. Prior to collecting groundwater samples, the temporary monitoring wells were gauged with an oil/water interface probe prior to sampling to record depth to groundwater and depth to bottom readings (to 1/100 of a foot), and to confirm or deny the presence of any non-aqueous phase liquid (NAPL). The purged groundwater was field screened for evidence of contamination (i.e., elevated PID readings, odor, or sheen) and water quality parameters including temperature, dissolved oxygen, pH, turbidity, conductivity, and oxidation reduction potential were recorded using a YSI ProDSS multiparameter digital water quality meter. Sampling was conducted in accordance with NYSDEC *Draft DER-10 Technical Guidance for Site Investigation and Remediation,* dated May 2010, and *Sampling Guidelines and Protocols,* dated March 1991.

Temporary groundwater monitoring well locations are shown on Figure 2. Groundwater monitoring well construction logs are included in Appendix C and groundwater sampling logs are included in Appendix D.

4.2.3 Survey

At each soil boring, temporary well, and soil vapor point distances were recorded using a measuring wheel to determine the location in respect to fixed object reference points (the Site boundary or permanent on-site structures).

4.2.4 Water Level Measurement

Prior to the collection of groundwater samples, each temporary well was gauged with an oil/water interface probe attached to a measuring tape accurate to 0.01 feet, to measure depth to water and total well depth. During gauging activities, groundwater levels ranged from 31.40 to 35.06 feet bg. No evidence of non-aqueous phase liquid (NAPL) was detected in the temporary wells or on the purge water. Depth to water measurements are summarized in Table 1.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater, and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

4.3.1 Soil Sampling

During this investigation, 23 soil samples were collected for chemical analysis from the soil boring locations indicated on Figure 2. In accordance with the Work Plan, samples were collected from 0 to 2 feet at each boring location and a second sample was collected from the 2-foot interval at the bottom of the proposed excavation depth of either 4 feet, 6 feet, or 12 feet. A third sample was collected from select borings within the fill layer to delineate previously identified contamination.

All equipment was properly decontaminated between each sampling event and after each use to prevent the cross-contamination of samples. Non-disposable equipment was field decontaminated by scrubbing with a non-phosphate detergent (i.e., Alconox® or Simple Green®) and rinsing with distilled water prior to use at each sample location. Soil samples were placed in laboratory-supplied containers in ice-filled coolers and submitted to the laboratory via courier with appropriate chain-of-custody documentation. Soil samples were submitted to Eurofins Edison (Eurofins) of Edison, New Jersey, a New York State Department of Health (NYSDOH)-certified laboratory for analysis of Target Compound List (TCL) VOCs by U.S. Environmental Protection Agency (EPA) Method 8260, TCL SVOCs by EPA Method 8270, TCL pesticides by EPA Method 8081, PCBs by EPA Method 8082, and Target Analyte List (TAL) metals by EPA 6000/7000 series. One sample (SB-08_0-2_20241213) was additionally analyzed for the per- and polyfluoroalkyl substances (PFAS) by EPA Method 1633 and 1,4-dioxane by EPA Method 8270D. One aqueous trip blank was included with sample shipment for Quality Assurance/Quality Control (QA/QC) purposes and was analyzed for VOCs only.

Data on soil sample collection, including chemical analyses, dates of collection, and sample depths, are reported in Tables 3 through 8. Laboratory analytical methods are discussed in Section 4.3.4 below.

4.3.2 Groundwater Sampling

During this investigation, three groundwater samples were collected for chemical analysis from three temporary groundwater monitoring wells.

Groundwater samples were collected using a peristaltic pump and dedicated tubing. Groundwater samples were placed in laboratory-supplied containers in ice-filled coolers and submitted to Eurofins via courier with appropriate chain-of-custody documentation. Groundwater samples were analyzed for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, TCL pesticides by EPA Method 8081, PCBs by EPA Method 8082, per- and polyfluoroalkyl substances (PFAS) by EPA Method 1633, 1,4-dioxane by EPA Method 8270, and TAL metals by EPA 6000/7000 series. The groundwater analysis for metals were conducted on both filtered (total) and unfiltered (dissolved) samples. Filtering occurred in the field using dedicated 0.45 micron field filters. One aqueous trip blank was included with sample shipment for QA/QC purposes and was analyzed for VOCs only.

The groundwater sample jars for PFAS analysis were handed off to the lab courier; however, the cooler was lost during transit to the Eurofins Cleveland laboratory in Barberton, Ohio.

Data on groundwater sample collection, including chemical analyses and dates of collection, are reported in Tables 9 through 14. Laboratory analytical methods are discussed in Section 4.3.4 below.

4.3.3 Soil Vapor Sampling

Three soil vapor probes were installed at the locations shown on Figure 2 and three soil vapor samples were collected for chemical analysis. The soil vapor probes were installed using a track-mounted Geoprobe® DPP unit to advance a 0.75-inch-diameter hollow probe rod fitted with a 6-inch-long stainless steel screened implant. As specified in the Phase II Work Plan, the soil vapor points were set at the proposed excavation depths. Soil vapor points SV-06 and SV-07 were installed to approximately 2 feet bg and soil vapor point SV-11 was installed to approximately 6 feet bg.

At each location, a 6-inch long, 0.5-inch diameter stainless steel vapor screen implant was installed at the target depth, and dedicated Teflon™-lined tubing extending above grade was threaded into the drive point. The probe was then retracted approximately six inches to create a void. No. 2 Morie sand was used to fill the annular space around the vapor point to 6 to 12 inches above the screen. Hydrated bentonite was used to fill the remaining void around the sampling tubing to the ground surface.

Prior to sampling the soil vapor points, approximately three sampler volumes were purged using a Gilair Plus low flow sampling pump. During purging, an inverted bucket was placed over each sampling point and tubing and sealed with hydrated bentonite. Helium was introduced to saturate the atmosphere through a small hole in the bucket. Purged vapors were collected in dedicated 1-liter Tedlar® bags and field-screened with a portable helium detector to check for short-circuiting by ambient air (i.e., to verify the adequacy of the bentonite seal above the probe so that samples would be representative of soil vapor conditions). Helium concentrations less than the NYSDOH guideline of 10 percent were considered sufficient to verify the integrity of the seal. The Tedlar® bags were also screened for organic vapors using the PID. The flow rate did not exceed 0.2 liters per minute during purging. After purging, the tubing was connected to a laboratory-supplied batch-certified clean 1-liter SUMMA canister equipped with a flow regulator to collect a sample over approximately two hours. Immediately after opening the flow control valve, the initial SUMMA® canister vacuum (inches of mercury) was noted. After approximately two hours, the flow controller valve was closed, the final vacuum noted, and the canister placed in a shipping carton for delivery with appropriate chain-of-custody documentation to Eurofins, a NYSDOH ELAP-certified laboratory for analysis of VOCs be EPA Method TO-15. After sampling, the soil vapor points were removed, the boreholes were backfilled, and the surface was restored to pre-sampling conditions.

Soil vapor sample collection data is reported in Table 15. Soil vapor sampling logs are included in Appendix E.

Soil vapor sampling logs are included in Appendix E. Methodologies used for soil vapor assessment conform to the *NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006.*

4.3.4 Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance was directed by Carl Armbruster of Eurofins.
Chemical Analytical Laboratory	Chemical analytical laboratory used in the RI was Eurofins, a NYS ELAP-certified laboratory.

Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010 and 7471 (rev. 2007); • VOCs by EPA Method 8260 (rev. 2006); • SVOCs by EPA Method 8270 (rev. 2007); • Pesticides by EPA Method 8081 (rev. 2000); • PCBs by EPA Method 8082 (rev. 2000); • Per- and Polyfluroalkyl Substances (PFAS) by EPA Method 1633 and 1,4-dioxane by EPA Method 8270D Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); • 1,4-dioxane by EPA Method 8270D SIM Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

4.3.5 Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Table 3 through 8, 9 through 14, and 15, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix F.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

The Site is relatively level, with the topography of the general surrounding area gently sloping down in a westerly direction. Based on an architectural survey dated September 2021, elevation of the Site ranges from 49 to 57 feet above mean sea level.

5.1.1 Stratigraphy

The stratigraphy of the Site consists of fill material (consisting of brown sand, silt, and gravel, with varying amounts of brick, asphalt, and concrete) down to approximately 3 to 11 feet below grade, underlain by apparent native sand with trace to little amounts of gravel to the boring terminus. Bedrock was not encountered in any of the borings during this investigation.

5.1.2 Hydrogeology

The depth to groundwater was measured using a Solinst® oil/water interface probe. Depth to groundwater beneath the Site ranged from approximately 31.40 feet below grade in the eastern portion of the Site at temporary well TW-08 to 35.06 feet below grade in the southwestern portion of the Site at temporary well TW-10. Based upon a review of topographical data, groundwater is assumed to flow in a westerly direction toward the East River, approximately 1 mile west of the Site; however, actual groundwater flow at the Site can be affected by many factors, including past filling activities, underground utilities, and other subsurface openings or obstructions such as basements, nearby subway lines, and other factors beyond the scope of this study. There are no surface water bodies or streams on or immediately adjacent to the Site. Groundwater in this portion of Queens is not used as a source of potable water.

A summary of water level data for all temporary monitoring wells is included in Table 1. The average depth to groundwater is 33.04 and the range in depth is 31.4 to 35.06.

5.2 Soil Chemistry

Twenty-three soil samples were collected for laboratory analysis during the RI from soil borings SB-04, and SB-08 through SB-15. The analytical results for VOCs, SVOCs, PCBs, pesticides and metals were compared to the NYSDEC 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 UUSCOs and RRSCOs. One sample (SB-08_0-2_20241213) was also analyzed for PFAS, and the analytical results were compared to the Unrestricted Use Guidance Values (UUGVs) and the Restricted Residential Guidance Values (RRGVs) as outlined in NYSDEC's *Sampling, Analysis and Assessment of PFAS* guidance dated April 2023. One aqueous trip blank was included with the sample shipment for QA/QC purposes and was analyzed for VOCs only. Soil sample analytical results are presented in Tables 3 through 8. Figure 4 shows the location and posts the values for soil/fill that exceed the NYSDEC UUSCOs, RRSCOs, and PFAS guidance values. The complete soil laboratory analytical data reports from the RI are included in Appendix F.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 2.

Volatile Organic Compounds (VOCs)

The VOCs acetone, methyl ethyl ketone, methylene chloride, PCE, and toluene were detected in up to 19 of the 23 soil samples analyzed during the RI at concentrations up to 0.087 mg/kg. No VOCs were detected above their respective UUSCOs or RRSCOs.

Soil analytical results for VOCs are presented in Table 3.

Semi-volatile Organic Compounds (SVOCs)

SVOCs were detected in each of the 23 soil samples analyzed during the investigation at concentrations up to 5.1 mg/kg. Six SVOCs [benzo(a)anthracene (max. 2.8 mg/kg), benzo(a)pyrene (max. 2.7 mg/kg), benzo(b)fluoranthene (max. 3.8 mg/kg), benzo(k)fluoranthene (max. 1.4 mg/kg), chrysene (max. 2.8 mg/kg), and indeno(1,2,3-c,d)pyrene (max. 1.4 mg/kg)] were detected above the UUSCOs in one or more of the following samples: SB-11_2-4_20241212, SB-13_0-2_20241211, SB-14_0-2_2024121, SB-14_2-4_20241211, and SB-15_2-4_20241211.

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-c,d)pyrene were additionally detected above the RRSCOs in samples SB-13_0-2_20241211, SB-14_0-2_20241211, SB-14_2-4_20241211, and SB-15_2-4_20241211. Benzo(b)fluoranthene was also detected above the RRSCO in sample SB-11_2-4_20241212.

The SVOCs that exceeded their respective UUSCOs and/or RRSCOs are polycyclic aromatic hydrocarbons (PAHs), a class of compounds found in some petroleum products, coal tar, coal ash, and other combustion products commonly found in historic fill. Therefore, the detected PAH concentrations in the soil samples can be generally attributed to historic fill material in the soil borings.

Soil analytical results for SVOCs are presented in Table 4.

Metals

Twenty-three metals were detected in one or more of the soil samples analyzed. The following four metals were detected above their respective UUSCOs in one or more of the soil samples: copper (max. 62.3 mg/kg), lead (max. 379 mg/kg), mercury (max. 0.27 mg/kg), and zinc (max. 173 mg/kg). No metals were detected above the RRSCOs. The detected concentrations in the soil samples are most likely attributable some combination of historic fill, which often contains variable concentrations of metals, and prior Site uses.

Soil analytical results for metals are presented in Table 5.

PCBs and Pesticides

PCBs were not detected above laboratory reporting limits in any of the soil samples analyzed during the investigation.

The pesticides P,P'-DDE and P,P'-DDT were detected in the sample SB-08_0-2_20241213 at concentrations of 0.004 mg/kg and 0.008 mg/kg, respectively. These values are above the UUSCO of 0.0033 mg/kg, but below their RRSCOs. The pesticide cis-chlordane was also detected in the sample SB-15_2-4_20241211, but below its UUSCO and RRSCO.

Soil analytical results for PCBs are presented in Table 6, and results for pesticides are presented in Table 7.

Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane in Soil

Perfluorooctanesulfonic acid (PFOS) was detected in the soil sample analyzed (SB-08_0-2_20241213) at a concentration of 2.17 parts per billion (ppb), above the UUSCO guidance value of 0.88 ppb, but below the RRSCO guidance value of 44 ppb. Perfluorooctanoic acid (PFOA) was

not detected above laboratory reporting limits. The compound 1,4-dioxane, analyzed as an SVOC, was not detected above laboratory reporting limits in any of the soil samples.

Soil analytical results for PFAS are presented in Table 8. Soil analytical results for 1,4-dioxane are presented in Table 4.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 2. Figure 4 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives for Unrestricted Use and Restricted Residential Use.

5.3 Groundwater Chemistry

Three groundwater samples were collected during the RI for laboratory analysis from the three temporary monitoring wells (TW-08 through TW-10). Groundwater sample analytical results for VOCs, SVOCs, PCBs, pesticides, metals (total and dissolved), and 1,4-dioxane were compared to the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs), which were developed based on use as a source of drinking water, although groundwater in this portion of Queens is not used as a source of potable water. One aqueous trip blank was included with the sample shipment for QA/QC purposes and was analyzed for VOCs only. Analytical results are presented in Tables 9 through 14. Figure 5 shows the location and posts the values for groundwater that exceeded the AWQSGVs. Groundwater laboratory analytical data reports for the RI are included in Appendix F.

The groundwater samples were additionally submitted for analysis of PFAS; however, after the sample jars were handed off to the lab courier, the cooler was lost during transit to the Eurofins Cleveland laboratory in Barberton, Ohio.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2.

Volatile Organic Compounds (VOCs) in Groundwater

Six VOCs (bromodichloromethane, chloroform, cis-1,2-dichloroethylene, dibromochloromethane, PCE, and TCE) were detected in one or more groundwater samples at concentrations ranging from 0.34 micrograms per liter (µg/L) of bromodichloromethane to 310 µg/L of PCE. PCE was detected in all three groundwater samples at concentrations ranging from 60 to 310 µg/L, above the AWQSGV of 5 µg/L. The highest concentration was detected in sample TW-10_20241212, collected from the southern portion of the Site. No other VOCs were detected in the groundwater samples above the AWQSGVs. No VOCs were detected above laboratory reporting limits in the aqueous trip blank samples. Groundwater analytical results for VOCs are presented in Table 9.

Semi-volatile Organic Compounds (SVOCs) in Groundwater

Three SVOCs, 1,4-dioxane, caprolactam, and di-n-butyl phthalate, were detected in one or more of the groundwater samples at concentrations up to 21 µg/L. Caprolactam and di-n-butyl phthalate were detected in all three groundwater samples; however, 1,4-dioxane was only detected in groundwater samples TW-08_20241213 and TW-10_20241213. No SVOCs were detected above their respective AWQSGVs.

Groundwater analytical results for SVOCs are presented in Table 10.

Metals in Groundwater

Twenty-two metals were detected in the total (unfiltered) groundwater samples. The following fourteen metals were detected above the AWQSGVs in one or more of the samples: arsenic (max. 73.3_µg/L), barium (max. 4,580 µg/L), beryllium (max. 14 µg/L), total chromium (max. 1,350 µg/L), copper (max. 1,000 µg/L), iron (max. 667,000 µg/L), lead (max. 707 µg/L), magnesium (max. 370,000 µg/L), manganese (max. 18,400 µg/L), mercury (max. 1.1 µg/L), nickel (max. 814 µg/L), sodium (max. 123,000 µg/L), thallium (max. 1.6 µg/L), and zinc (max. 2,040 µg/L).

Thirteen metals were detected in the dissolved (filtered) groundwater samples. The following two metals were detected above the AWQSGVs in one or more samples: manganese (max. 412 µg/L), and sodium (max. 134,000 µg/L)

The metal detections are likely related to regional groundwater conditions and not due to an on-site source. Groundwater analytical results for total metals are presented in Table 11 and results for dissolved metals are presented in Table 12.

Polychlorinated Biphenyls (PCBs) and Pesticides in Groundwater

No PCBs or pesticides were detected above laboratory reporting limits in any of the groundwater samples.

Groundwater analytical results for PCBs are presented in Table 13 and results for pesticides are presented in Table 14.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2. Exceedances of applicable groundwater standards are shown.

Figure 5 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

Soil vapor samples collected during the RI were compared to the Soil Vapor/Indoor Air Decision Matrices A through F, as detailed in the May 2017 and February 2024 updates to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion. Since indoor air samples were not collected as part of the RI (and could not be collected since there are no structures on-site), the results were conservatively compared to the soil vapor matrix concentrations that correspond to a recommended action of "Mitigate," regardless of the corresponding indoor air concentrations.

Petroleum-related VOCs, including 1,3-butadiene, 2,2,4-trimethylpentane, benzene, butane, cyclohexane, methyl ethyl ketone, n-heptane, n-hexane, styrene, and toluene were detected at concentrations ranging from 2.3 µg/m^3 (2,2,4-trimethylpentane in sample SV-06_20241213) to 66 µg/m^3 (butane in sample SV-07_20241213). Solvent-related VOCs, including carbon disulfide, chloroform, cis-1,2-dichloroethylene, PCE, and TCE were detected at concentrations ranging from 1.4 µg/m^3 (PCE in sample SV-07_20241213) to 25 µg/m^3 (PCE in sample SV-11_20241213).

TCE was detected in soil vapor sample SV-11_20241213, at a concentration of 4.4 µg/m^3, below the Matrix Value of 60 µg/m^3. According to Matrix A, the applicable matrix for TCE, soil vapor concentrations greater than 60 µg/m^3 result in a recommendation for mitigation, regardless of the indoor air concentration.

PCE was detected in soil vapor samples SV-07_20241213 and SV-11_20241213, at concentrations of 1.4 µg/m^3 and 25 µg/m^3 respectively, below Matrix Value of 1,000 µg/m^3. According to Matrix B, the applicable matrix for PCE, soil vapor concentrations greater than 1,000 µg/m^3 result in a recommendation for mitigation, regardless of the indoor air concentration.

Based on the distribution of elevated chlorinated solvent-related VOCs, and previous soil vapor results from the 2021 Phase II investigation, the soil vapor detections are likely attributable to an on-site source.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 15. Figure 6 shows the location and posts the values for soil vapor samples with detected concentrations.

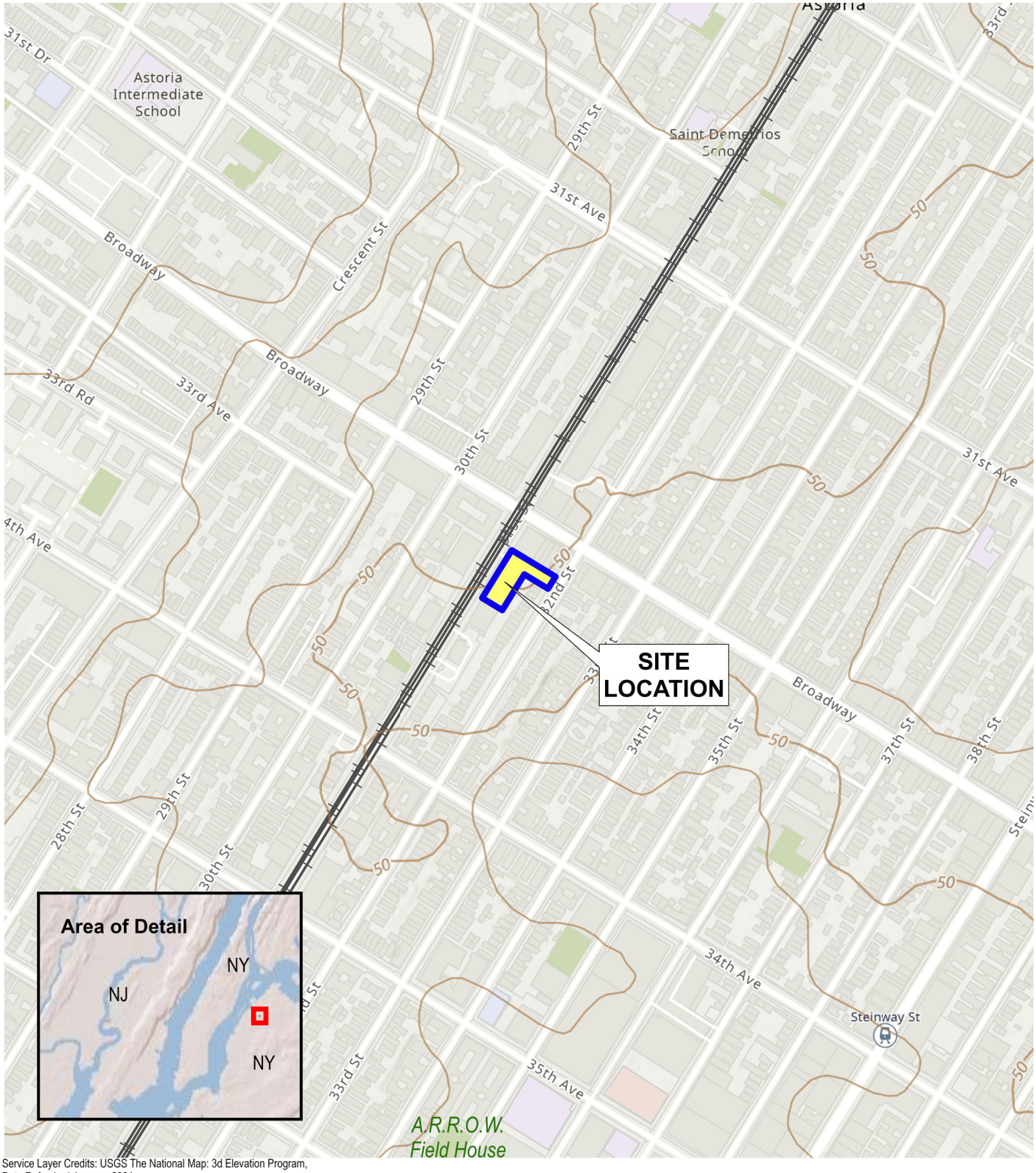
5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed January, 2024

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SCALE IN FEET

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31-07 31st Street
Queens, New York

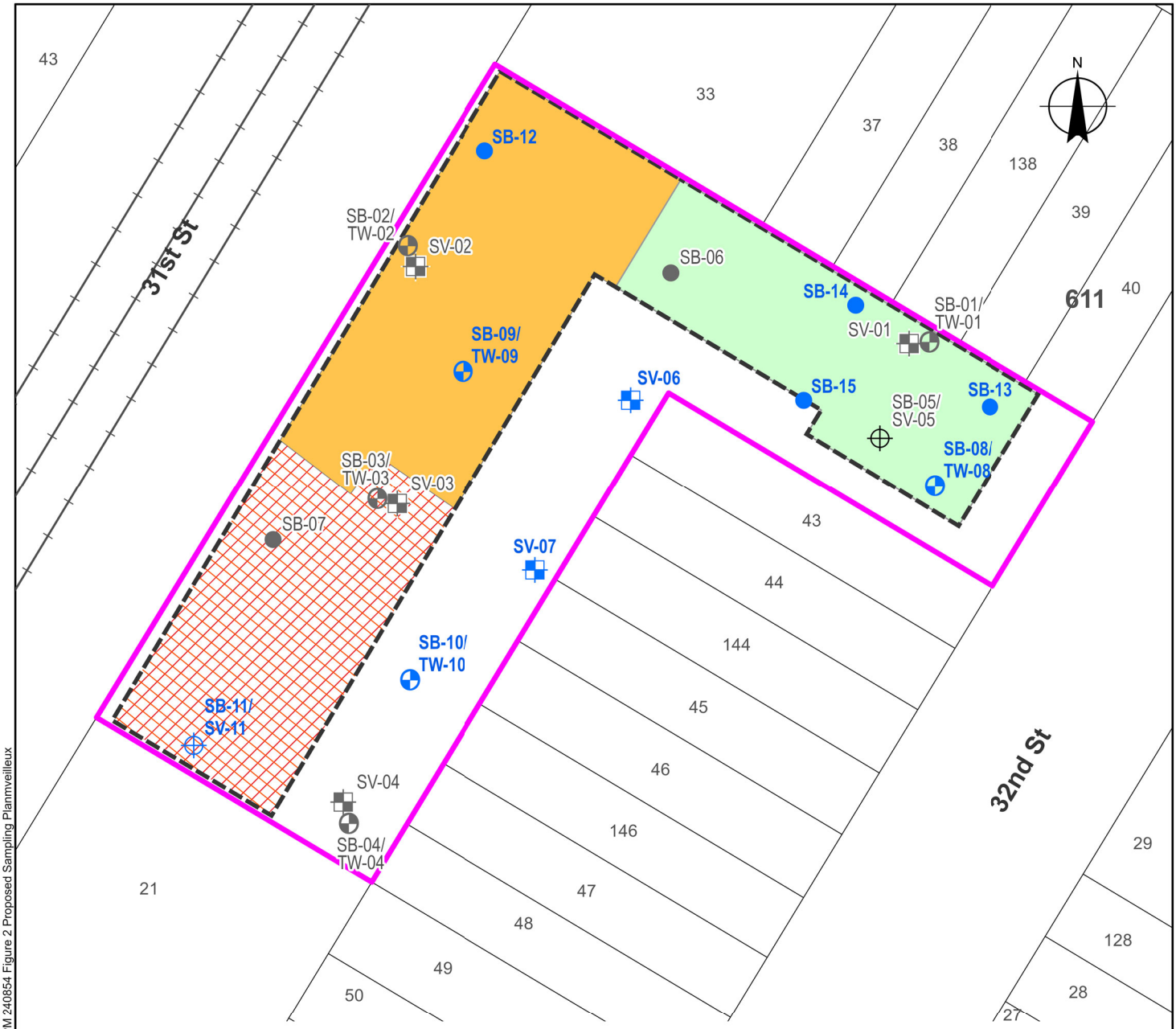
SITE LOCATION

DATE
1/10/2025

PROJECT NO.
240854

FIGURE
1

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARI\SARI\Phase II Figures_DCEDITS.aprx8/2/2024 11:48 AM\240854 Fig 1 Site Locationmveilleux



LEGEND

- PROJECT SITE BOUNDARY
- 25 — LOT BOUNDARY AND TAX LOT NUMBER
- 611 — BLOCK NUMBER
- PROPOSED CRAWLSPACE
- PROPOSED BUILDING
- PROPOSED CELLAR
- PROPOSED SLAB-ON-GRADE
- 2022 PHASE II SOIL BORING
- 2022 PHASE II SOIL BORING/SOIL VAPOR POINT
- 2022 PHASE II SOIL VAPOR POINT
- 2022 PHASE II SOIL BORING/TEMPORARY WELL
- 2024 PHASE II SOIL BORING
- 2024 PHASE II SOIL BORING/SOIL VAPOR POINT
- 2024 PHASE II SOIL BORING/TEMPORARY WELL
- 2024 PHASE II SOIL VAPOR POINT

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Aerial Source:
2022 New York State ITS GIS Orthoimagery

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\Phase II Figures_DCEDITS.aprx 1/8/2025 4:47 PM 240854 Figure 2 Proposed Sampling Plannveilleux

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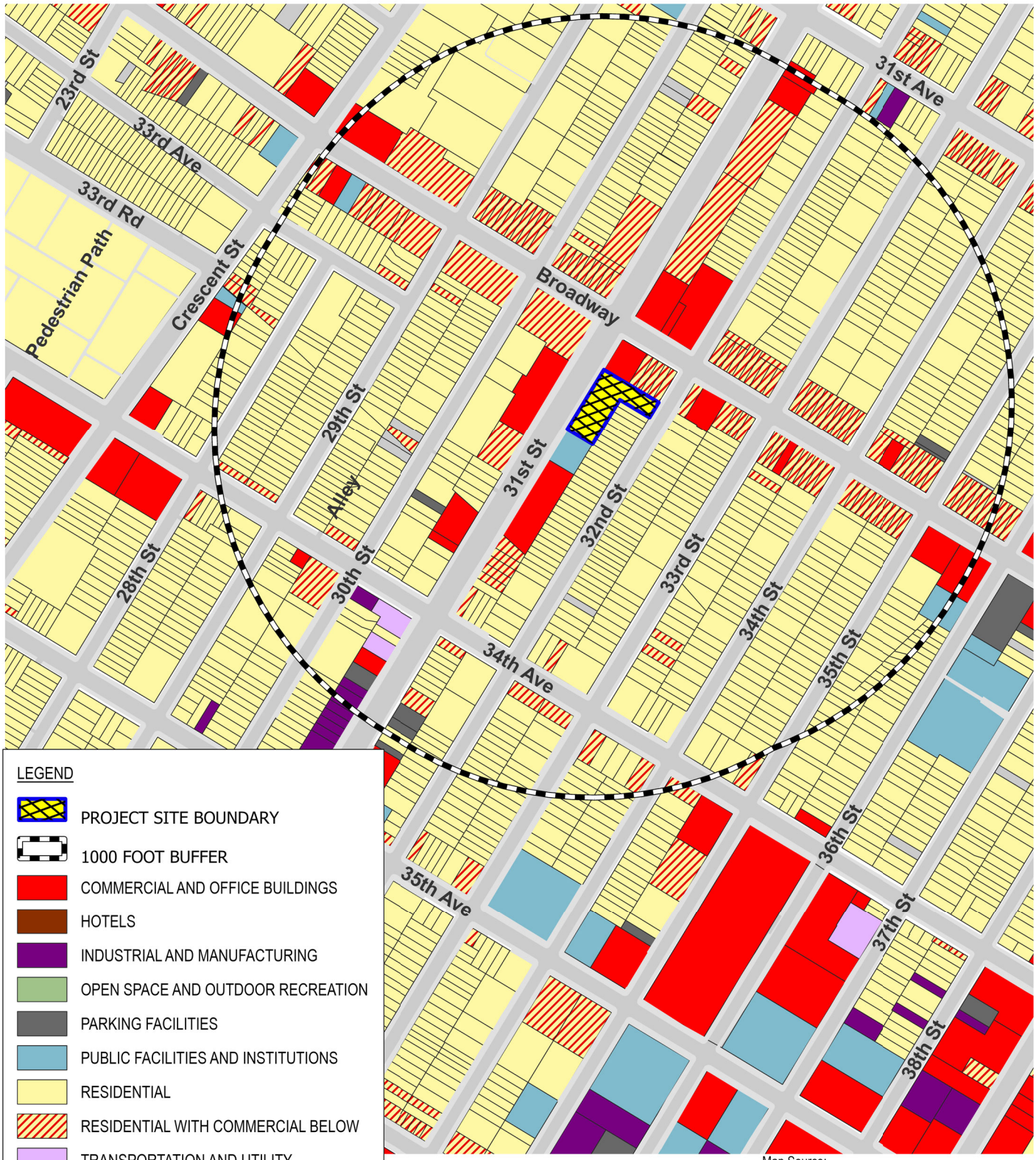
31-07 31st Street
Queens, New York

SITE PLAN AND SAMPLING LOCATIONS

DATE
1/10/2025

PROJECT NO.
240854

FIGURE
2



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

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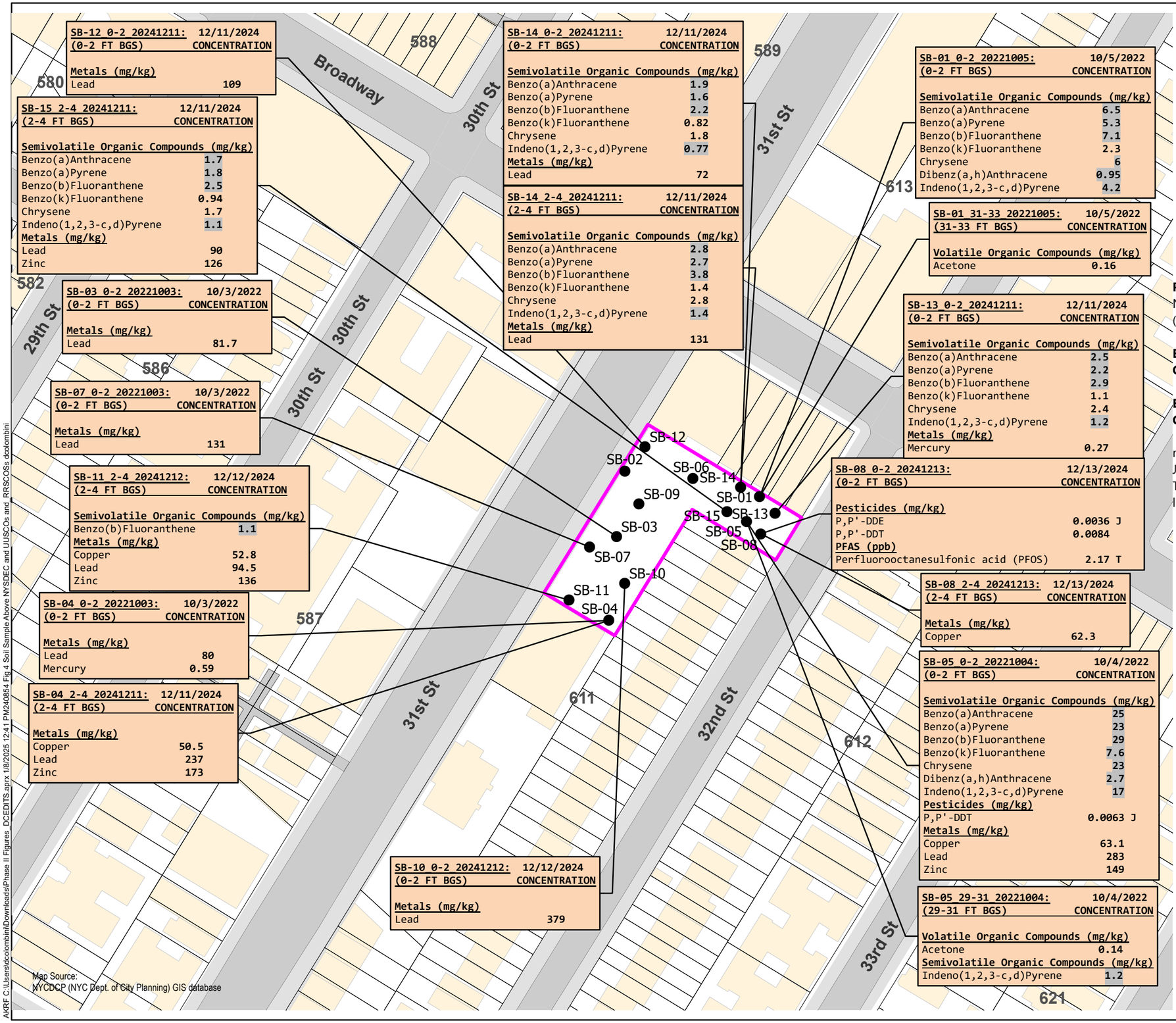
AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SARISAR\Phase II Surrounding Land Use Figure.aprx1/26/2022 9:52 AMFig 3 Surrounding Land Usemveilleux

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Queens, New York

SURROUNDING LAND USE

DATE
1/10/2025
PROJECT NO.
240854
FIGURE
3



SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	109

SB-15 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	1.7
Benzo(a)Pyrene	1.8
Benzo(b)Fluoranthene	2.5
Benzo(k)Fluoranthene	0.94
Chrysene	1.7
Indeno(1,2,3-c,d)Pyrene	1.1
Metals (mg/kg)	
Lead	90
Zinc	126

SB-03 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	81.7

SB-07 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	131

SB-11 2-4 20241212: 12/12/2024
(2-4 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(b)Fluoranthene	1.1
Metals (mg/kg)	
Copper	52.8
Lead	94.5
Zinc	136

SB-04 0-2 20221003: 10/3/2022
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	80
Mercury	0.59

SB-04 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Copper	50.5
Lead	237
Zinc	173

SB-14 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	1.9
Benzo(a)Pyrene	1.6
Benzo(b)Fluoranthene	2.2
Benzo(k)Fluoranthene	0.82
Chrysene	1.8
Indeno(1,2,3-c,d)Pyrene	0.77
Metals (mg/kg)	
Lead	72

SB-14 2-4 20241211: 12/11/2024
(2-4 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	2.8
Benzo(a)Pyrene	2.7
Benzo(b)Fluoranthene	3.8
Benzo(k)Fluoranthene	1.4
Chrysene	2.8
Indeno(1,2,3-c,d)Pyrene	1.4
Metals (mg/kg)	
Lead	131

SB-10 0-2 20241212: 12/12/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	379

SB-01 0-2 20221005: 10/5/2022
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	6.5
Benzo(a)Pyrene	5.3
Benzo(b)Fluoranthene	7.1
Benzo(k)Fluoranthene	2.3
Chrysene	6
Dibenz(a,h)Anthracene	0.95
Indeno(1,2,3-c,d)Pyrene	4.2

SB-01 31-33 20221005: 10/5/2022
(31-33 FT BGS) CONCENTRATION

Volatile Organic Compounds (mg/kg)	
Acetone	0.16

SB-13 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	2.5
Benzo(a)Pyrene	2.2
Benzo(b)Fluoranthene	2.9
Benzo(k)Fluoranthene	1.1
Chrysene	2.4
Indeno(1,2,3-c,d)Pyrene	1.2
Metals (mg/kg)	
Mercury	0.27

SB-08 0-2 20241213: 12/13/2024
(0-2 FT BGS) CONCENTRATION

Pesticides (mg/kg)	
P,P'-DDE	0.0036 J
P,P'-DDT	0.0084
PFAS (ppb)	
Perfluorooctanesulfonic acid (PFOS)	2.17 T

SB-08 2-4 20241213: 12/13/2024
(2-4 FT BGS) CONCENTRATION

Metals (mg/kg)	
Copper	62.3

SB-05 0-2 20221004: 10/4/2022
(0-2 FT BGS) CONCENTRATION

Semivolatile Organic Compounds (mg/kg)	
Benzo(a)Anthracene	25
Benzo(a)Pyrene	23
Benzo(b)Fluoranthene	29
Benzo(k)Fluoranthene	7.6
Chrysene	23
Dibenz(a,h)Anthracene	2.7
Indeno(1,2,3-c,d)Pyrene	17
Pesticides (mg/kg)	
P,P'-DDT	0.0063 J
Metals (mg/kg)	
Copper	63.1
Lead	283
Zinc	149

SB-05 29-31 20221004: 10/4/2022
(29-31 FT BGS) CONCENTRATION

Volatile Organic Compounds (mg/kg)	
Acetone	0.14
Semivolatile Organic Compounds (mg/kg)	
Indeno(1,2,3-c,d)Pyrene	1.2

N

LEGEND

- SOIL SAMPLE LOCATION
- PROJECT SITE BOUNDARY
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- 2389 BLOCK NUMBER

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.

Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are shaded

mg/kg: milligrams per kilogram = parts per million (ppm)
J: The concentration given is an estimated value.
T: Indicates that a quality control parameter has exceeded laboratory limits

	UUGVs ppb	RRGVs ppb	RRSCO mg/kg	UUSCO mg/kg
Volatile Organic Compounds				
Acetone			100	0.05
Semivolatile Organic Compounds				
Benzo(a)Anthracene			1	1
Benzo(a)Pyrene			1	1
Benzo(b)Fluoranthene			1	1
Benzo(k)Fluoranthene			3.9	0.8
Chrysene			3.9	1
Dibenz(a,h)Anthracene			0.33	0.33
Indeno(1,2,3-c,d)Pyrene			0.5	0.5
Metals				
Copper			270	50
Lead			400	63
Mercury			0.81	0.18
Zinc			10,000	109
Pesticides				
P,P'-DDE			8.9	0.0033
P,P'-DDT			7.9	0.0033
PFAS				
Perfluorooctanesulfonic acid (PFOS)	0.88	44		

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Sample ID — Sample Date

SB-12 0-2 20241211: 12/11/2024
(0-2 FT BGS) CONCENTRATION

Metals (mg/kg)	
Lead	109

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

SOIL SAMPLE CONCENTRATIONS ABOVE NYSDEC UUSCOS AND RRSCOS

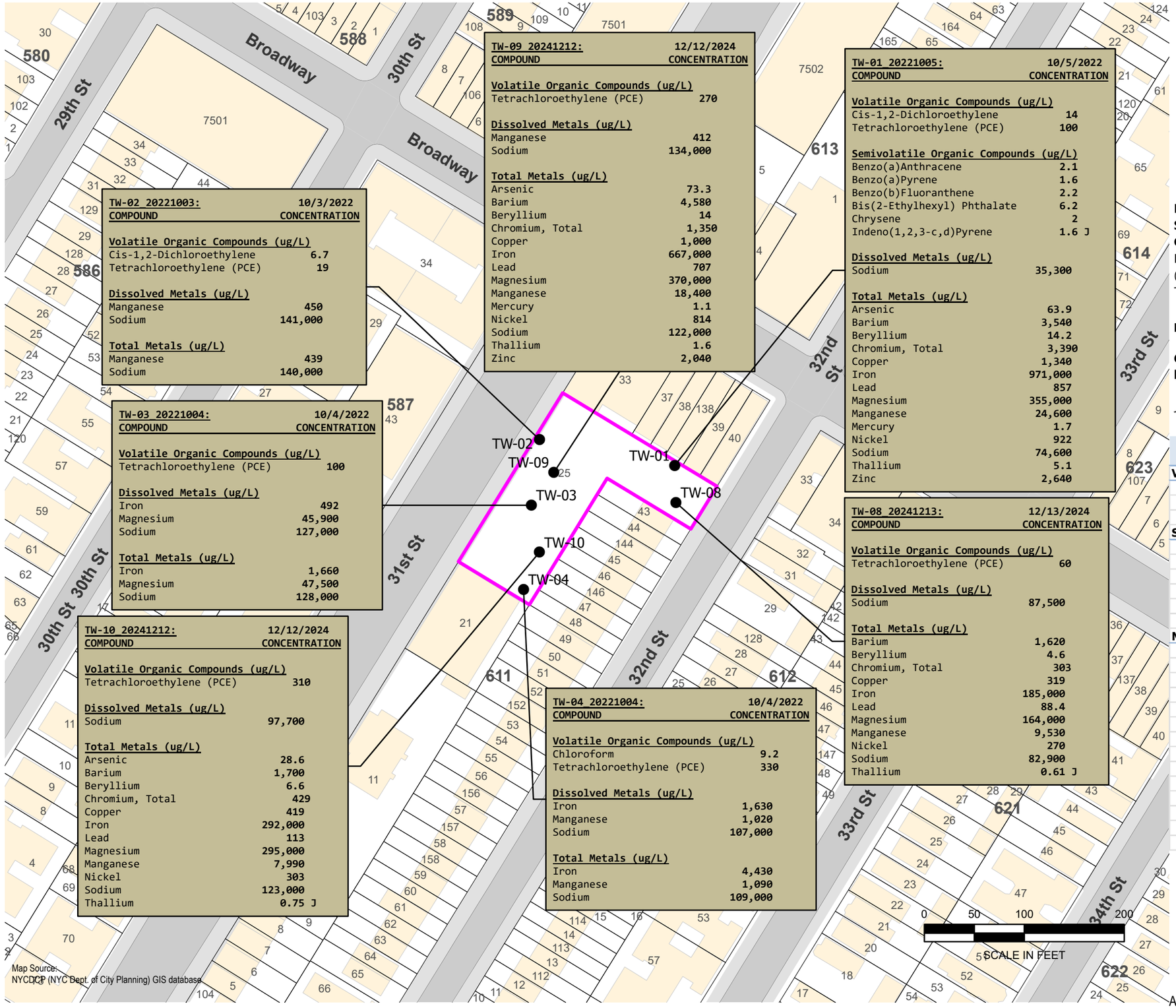
31-07 31st Street
Queens, New York

DATE
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PROJECT NO.
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FIGURE
4

AKRF C:\Users\dcolombini\Downloads\Phase II Figures_DCED\TS.aprx 1/8/2025 12:41 PM240854 Fig 4 Soil Sample Above NYSDEC and UUSCOs and RRSCOs dcolombini



TW-09 20241212: 12/12/2024

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**270**
Dissolved Metals (ug/L)	
Manganese	**412**
Sodium	**134,000**
Total Metals (ug/L)	
Arsenic	**73.3**
Barium	**4,580**
Beryllium	**14**
Chromium, Total	**1,350**
Copper	**1,000**
Iron	**667,000**
Lead	**707**
Magnesium	**370,000**
Manganese	**18,400**
Mercury	**1.1**
Nickel	**814**
Sodium	**122,000**
Thallium	**1.6**
Zinc	**2,040**

TW-01 20221005: 10/5/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**14**
Tetrachloroethylene (PCE)	**100**
Semivolatile Organic Compounds (ug/L)	
Benzo(a)Anthracene	**2.1**
Benzo(a)Pyrene	**1.6**
Benzo(b)Fluoranthene	**2.2**
Bis(2-Ethylhexyl) Phthalate	**6.2**
Chrysene	**2**
Indeno(1,2,3-c,d)Pyrene	**1.6 J**
Dissolved Metals (ug/L)	
Sodium	**35,300**
Total Metals (ug/L)	
Arsenic	**63.9**
Barium	**3,540**
Beryllium	**14.2**
Chromium, Total	**3,390**
Copper	**1,340**
Iron	**971,000**
Lead	**857**
Magnesium	**355,000**
Manganese	**24,600**
Mercury	**1.7**
Nickel	**922**
Sodium	**74,600**
Thallium	**5.1**
Zinc	**2,640**

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**
Dissolved Metals (ug/L)	
Manganese	**450**
Sodium	**141,000**
Total Metals (ug/L)	
Manganese	**439**
Sodium	**140,000**

TW-03 20221004: 10/4/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**100**
Dissolved Metals (ug/L)	
Iron	**492**
Magnesium	**45,900**
Sodium	**127,000**
Total Metals (ug/L)	
Iron	**1,660**
Magnesium	**47,500**
Sodium	**128,000**

TW-08 20241213: 12/13/2024

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**60**
Dissolved Metals (ug/L)	
Sodium	**87,500**
Total Metals (ug/L)	
Barium	**1,620**
Beryllium	**4.6**
Chromium, Total	**303**
Copper	**319**
Iron	**185,000**
Lead	**88.4**
Magnesium	**164,000**
Manganese	**9,530**
Nickel	**270**
Sodium	**82,900**
Thallium	**0.61 J**

TW-10 20241212: 12/12/2024

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Tetrachloroethylene (PCE)	**310**
Dissolved Metals (ug/L)	
Sodium	**97,700**
Total Metals (ug/L)	
Arsenic	**28.6**
Barium	**1,700**
Beryllium	**6.6**
Chromium, Total	**429**
Copper	**419**
Iron	**292,000**
Lead	**113**
Magnesium	**295,000**
Manganese	**7,990**
Nickel	**303**
Sodium	**123,000**
Thallium	**0.75 J**

TW-04 20221004: 10/4/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Chloroform	**9.2**
Tetrachloroethylene (PCE)	**330**
Dissolved Metals (ug/L)	
Iron	**1,630**
Manganese	**1,020**
Sodium	**107,000**
Total Metals (ug/L)	
Iron	**4,430**
Manganese	**1,090**
Sodium	**109,000**

N

LEGEND

- **2389** BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER
- PROJECT SITE BOUNDARY
- GROUNDWATER SAMPLE LOCATION

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs):
New York State Department of Environmental Conservation (NYSDEC)
Technical and Operational Guidance Series (TOGS) (1.1.1):

µg/L: micrograms per Liter = parts per billion (ppb)

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The reported value is estimated.

	NYSDEC AWQSGVs ug/l
Volatile Organic Compounds	
Chloroform	7
Cis-1,2-Dichloroethylene	5
Tetrachloroethylene (PCE)	5
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.002
Benzo(a)Pyrene	0
Benzo(b)Fluoranthene	0.002
Bis(2-Ethylhexyl) Phthalate	5
Chrysene	0.002
Indeno(1,2,3-c,d)Pyrene	0.002
Metals	
Arsenic	25
Barium	1,000
Beryllium	3
Chromium, Total	50
Copper	200
Iron	300
Lead	25
Magnesium	35,000
Manganese	300
Mercury	0.7
Nickel	100
Sodium	20,000
Thallium	0.5
Zinc	2,000

Sample ID — Sample Date

TW-02 20221003: 10/3/2022

COMPOUND	CONCENTRATION
Volatile Organic Compounds (ug/L)	
Cis-1,2-Dichloroethylene	**6.7**
Tetrachloroethylene (PCE)	**19**

Analyte/Compound — Concentration

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440 Park Avenue South, New York, NY 10016

GROUNDWATER SAMPLE CONCENTRATIONS ABOVE NYSDEC AWQSGVS

31-07 31st Street
Queens, New York

DATE **1/8/2025**
PROJECT NO. **240854**
FIGURE **5**

AKRF C:\Users\dcolombini\Downloads\Phase II Figures_DCEDITS.aprx 1/8/2025 12:42 PM240854 Fig 5 Groundwater Sample Above AWQSGVs dcolombini



SV-04_20221003: 10/3/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	2.1
1,3-Butadiene	3.9
1,3-Dichlorobenzene	2.2
1,3,5-Trimethylbenzene (Mesitylene)	0.49 J
2-Hexanone	1.6 J
2,2,4-Trimethylpentane	1.2
4-Ethyltoluene	0.73 J
Acetone	130 D
Benzene	4.1
Butane	12
Carbon Disulfide	3
Carbon Tetrachloride	0.24
Chlorodifluoromethane	0.87 J
Chloroform	5.9
Chloromethane	0.32 J
Cis-1,2-Dichloroethylene	22
Cyclohexane	1.1
Cymene	2.7
Dichlorodifluoromethane	1.8 J
Ethylbenzene	5.8
Isopropanol	24
M,P-Xylenes	23
Methyl Ethyl Ketone (2-Butanone)	8.2
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1 J
Methyl Methacrylate	0.76 J
Methylene Chloride	1.2 J
N-Heptane	3.9
N-Hexane	7.1
N-Propylbenzene	0.53 J
O-Xylene (1,2-Dimethylbenzene)	4.9
Styrene	0.42 J
Tert-Butyl Alcohol	14 J
Tetrachloroethylene (PCE)	1,900 D
Toluene	29
Trichloroethylene (TCE)	28
Trichlorofluoromethane	1 J

SV-02_20221003: 10/3/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	1.8
1,3-Butadiene	1.6
1,3-Dichlorobenzene	1.6
1,3,5-Trimethylbenzene (Mesitylene)	0.45 J
2,2,4-Trimethylpentane	1.5
4-Ethyltoluene	0.54 J
Acetone	170 D
Benzene	2.2
Butane	8.1
Carbon Disulfide	1.6
Carbon Tetrachloride	0.4
Chlorodifluoromethane	8
Chloroform	10
Chloromethane	0.43 J
Cis-1,2-Dichloroethylene	110
Cyclohexane	1
Cymene	2.3
Dichlorodifluoromethane	0.8 J
Ethylbenzene	4.2
Isopropanol	31
M,P-Xylenes	17
Methyl Ethyl Ketone (2-Butanone)	6
Methylene Chloride	0.65 J
N-Heptane	2.4
N-Hexane	3.7
N-Propylbenzene	0.38 J
O-Xylene (1,2-Dimethylbenzene)	3.8
Styrene	0.3 J
Tert-Butyl Alcohol	8.6 J
Tetrachloroethylene (PCE)	210
Toluene	24
Trans-1,2-Dichloroethene	1
Trichloroethylene (TCE)	34
Trichlorofluoromethane	2

SV-11_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
Chloroform	3.1 J
Cis-1,2-Dichloroethylene	7.9
Styrene	3.1 J
Tetrachloroethylene (PCE)	25
Trichloroethylene (TCE)	4.4

SV-07_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,3-Butadiene	5.6
2,2,4-Trimethylpentane	3.5 J
Acetone	78 J
Benzene	3.7 J
Butane	66
Carbon Disulfide	12 J
Cyclohexane	13
Methyl Ethyl Ketone (2-Butanone)	18
N-Heptane	9.4
N-Hexane	25
Tetrachloroethylene (PCE)	1.4 J
Toluene	2.6 J

SV-06_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,3-Butadiene	13
2,2,4-Trimethylpentane	2.3 J
Acetone	54 J
Benzene	5 J
Butane	45
Carbon Disulfide	21
Cyclohexane	5.9 J
Methyl Ethyl Ketone (2-Butanone)	14 J
N-Heptane	3.6 J
N-Hexane	11 J
Toluene	5.5 J

SV-01_20221004: 10/4/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.48 J
1,2,4-Trimethylbenzene	1.7
1,3-Butadiene	3.6
1,3-Dichlorobenzene	1.9
1,3,5-Trimethylbenzene (Mesitylene)	0.33 J
2,2,4-Trimethylpentane	1.2
4-Ethyltoluene	0.33 J
Acetone	85
Benzene	2
Butane	12
Carbon Disulfide	4.1
Carbon Tetrachloride	0.32
Chlorodifluoromethane	4
Chloroform	8.6
Chloromethane	0.8 J
Cis-1,2-Dichloroethylene	200 D
Cyclohexane	1.1
Cymene	3
Dichlorodifluoromethane	1.8 J
Ethylbenzene	1.4
Isopropanol	24
Isopropylbenzene (Cumene)	0.28 J
M,P-Xylenes	5.3
Methyl Ethyl Ketone (2-Butanone)	10
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.2 J
Methylene Chloride	3.9
N-Heptane	2.9
N-Hexane	3.3
N-Propylbenzene	0.26 J
O-Xylene (1,2-Dimethylbenzene)	2
Styrene	0.41 J
Tert-Butyl Alcohol	14 J
Tetrachloroethylene (PCE)	780 D
Toluene	11
Trans-1,2-Dichloroethene	1.1
Trichloroethylene (TCE)	30
Trichlorofluoromethane	1.6

SV-03_20221004: 10/4/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	1.6
1,3-Butadiene	2.6
1,3-Dichlorobenzene	1.5
1,3,5-Trimethylbenzene (Mesitylene)	0.39 J
2,2,4-Trimethylpentane	3.3
4-Ethyltoluene	0.39 J
Acetone	82
Benzene	2.2
Butane	9.9
Carbon Disulfide	2.3
Carbon Tetrachloride	0.26
Chlorodifluoromethane	8.3
Chloroform	9.5
Chloromethane	0.41 J
Cis-1,2-Dichloroethylene	96
Cyclohexane	0.65 J
Cymene	1.9
Dichlorodifluoromethane	2.3 J
Ethylbenzene	2.2
Isopropanol	24
M,P-Xylenes	8.5
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.3 J
N-Heptane	2.5
N-Hexane	3.3
N-Propylbenzene	0.27 J
O-Xylene (1,2-Dimethylbenzene)	2.4
Tert-Butyl Alcohol	36
Tetrachloroethylene (PCE)	130
Toluene	6.1
Trans-1,2-Dichloroethene	0.61 J
Trichloroethylene (TCE)	45
Trichlorofluoromethane	1.4

SV-05_20221004: 10/4/2022

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
1,1,1-Trichloroethane	0.33 J
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	0.56 J
1,2,4-Trimethylbenzene	1.5
1,3-Butadiene	6.6
1,3-Dichlorobenzene	2.6
1,3,5-Trimethylbenzene (Mesitylene)	0.38 J
2,2,4-Trimethylpentane	3.5
4-Ethyltoluene	0.39 J
Acetone	87
Benzene	3.9
Butane	25
Carbon Disulfide	5.4
Carbon Tetrachloride	0.28
Chlorodifluoromethane	2.2
Chloroform	27
Chloromethane	0.27 J
Cis-1,2-Dichloroethylene	45
Cyclohexane	2
Cymene	3.6
Dichlorodifluoromethane	2.3 J
Ethylbenzene	2.9
Isopropanol	11 J
Isopropylbenzene (Cumene)	0.39 J
M,P-Xylenes	9
Methyl Ethyl Ketone (2-Butanone)	11
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.7 J
N-Heptane	5.8
N-Hexane	7
N-Propylbenzene	0.28 J
O-Xylene (1,2-Dimethylbenzene)	2.6
Tert-Butyl Alcohol	28
Tetrachloroethylene (PCE)	390 D
Toluene	5.8
Trichloroethylene (TCE)	25
Trichlorofluoromethane	3.3

LEGEND

- PROJECT_SITE_BOUNDARY
- SOIL VAPOR SAMPLE LOCATION
- 2389 BLOCK NUMBER
- 20 LOT BOUNDARY AND TAX LOT NUMBER

N

SOIL VAPOR

µg/m³- micrograms per cubic meter

J: The reported value is estimated.
D: Analyte concentration obtained from dilution.

0 75 150 300
SCALE IN FEET

Sample ID — Sample Date

SV-11_20241213: 12/13/2024

COMPOUND	CONC. (ug/m3)
Volatile Organic Compounds	
Chloroform	3.1 J
Cis-1,2-Dichloroethylene	7.9

Analyte/Compound — Concentration

akrf
440 Park Avenue South, New York, NY 10016

31-07 31ST STREET
Queens, New York

SOIL VAPOR DETECTIONS

DATE
1/8/2025

PROJECT NO.
240854

FIGURE
2

AKRF C:\Users\dcolombini\Documents\ArcGIS\Projects\Fig6_240854\Fig6_240854.aprx 1/8/2025 4:51 PM xxx Fig x Soil Sample Above NYSDEC and UUSCOs and _RRSCOSs dcolombini

TABLES

Table 1
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Depth to Water in Temporary Wells

Well ID	Total Depth of Well (ft. bgs)	Screen Interval (ft. bgs)	Depth to Groundwater (ft. below TOC)
TW-08	37.9	30 to 40	31.40
TW-09	39.98	30 to 40	32.67
TW-10	40.18	30 to 40	35.06

Notes:
ft. bgs = feet below ground surface
TOC = top of casing
NA = not applicable

Table 2
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Sample Collection Summary

Matrix	Sample ID	Date of Collection	Sample Depth (ft. bgs)	Analysis
Soil	SB-04_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-04_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-08_0-2_20241213	12/13/2024	0-2	VOCs, SVOCs, Metals, PCBs, Pesticides, and PFAS
	SB-08_2-4_20241213	12/13/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-08_9-11_20241213	12/13/2024	9-11	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-09_0-2_20241212	12/12/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-09_8-10_20241212	12/12/2024	8-10	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-09_10-12_20241212	12/12/2024	10-12	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-10_0-2_20241212	12/12/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-10_2-4_20241212	12/12/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-10_8-10_20241212	12/12/2024	8-10	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-11_0-2_20241212	12/12/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-11_2-4_20241212	12/12/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-11_4-6_20241212	12/12/2024	4-6	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-12_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-12_8-10_20241211	12/11/2024	8-10	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-12_10-12_20241211	12/11/2024	10-12	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-13_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-13_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-14_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-14_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-15_0-2_20241211	12/11/2024	0-2	VOCs, SVOCs, Metals, PCBs, and Pesticides
	SB-15_2-4_20241211	12/11/2024	2-4	VOCs, SVOCs, Metals, PCBs, and Pesticides
Groundwater	TW-08_20241213	12/13/2024	NA	VOCs, SVOCs, Metals (total and dissolved), PCBs, and Pesticides
	TW-09_20241212	12/12/2024	NA	VOCs, SVOCs, Metals (total and dissolved), PCBs, and Pesticides
	TW-10_20241212	12/12/2024	NA	VOCs, SVOCs, Metals (total and dissolved), PCBs, and Pesticides
Soil Vapor	SV-06_20241213	12/13/2024	2	VOCs
	SV-07_20241213	12/13/2024	2	VOCs
	SV-11_20241213	12/13/2024	6	VOCs

Notes:
ft. bg: feet below grade surface
VOCs: Volatile Organic Compounds
SVOCs: Semi-volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
PFAS: Per- and Polyfluoroalkyl Substances

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.001 U	0.0011 U	0.00096 UT	0.00098 UT	0.0011 UT
1,1,2,2-Tetrachloroethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.001 U	0.0011 U	0.00096 UT	0.00098 UT	0.0011 UT
1,1,2-Trichloroethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,1-Dichloroethane	0.27	26	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,1-Dichloroethene	0.33	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2,3-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2,4-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2,4-Trimethylbenzene	3.6	52	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dichlorobenzene	1.1	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dichloroethane	0.02	3.1	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,2-Dichloropropane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,3-Dichlorobenzene	2.4	49	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
1,4-Dichlorobenzene	1.8	13	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
2-Hexanone	NS	NS	0.005 U	0.0055 U	0.0048 U	0.0049 U	0.0055 U
Acetone	0.05	100	0.006 U	0.0066 U	0.0058 U	0.0059 U	0.0066 U
Benzene	0.06	4.8	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromochloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromodichloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromoform	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Bromomethane	NS	NS	0.002 U	0.0022 U	0.0019 U	0.002 U	0.0022 U
Carbon Disulfide	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Carbon Tetrachloride	0.76	2.4	0.001 U	0.0011 U	0.00096 UT	0.00098 UT	0.0011 UT
Chlorobenzene	1.1	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Chloroethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Chloroform	0.37	49	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Chloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Cis-1,2-Dichloroethylene	0.25	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Cis-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Cyclohexane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Dibromochloromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Dichlorodifluoromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Ethylbenzene	1	41	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Isopropylbenzene (Cumene)	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
M,P-Xylenes	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Methyl Acetate	NS	NS	0.005 U	0.0055 U	0.0048 U	0.0049 U	0.0055 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.005 U	0.0055 U	0.0048 U	0.0049 U	0.0055 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.005 UT	0.0055 UT	0.0048 U	0.0049 U	0.0055 U
Methylcyclohexane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Methylene Chloride	0.05	100	0.002 U	0.0022 U	0.0019 U	0.002 U	0.0022 U
N-Butylbenzene	12	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
N-Propylbenzene	3.9	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Sec-Butylbenzene	11	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Styrene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
T-Butylbenzene	5.9	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Tert-Butyl Methyl Ether	0.93	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Tetrachloroethylene (PCE)	1.3	19	0.001 U	0.0016	0.0027	0.0088	0.0011 U
Toluene	0.7	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trans-1,2-Dichloroethene	0.19	100	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trans-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trichloroethylene (TCE)	0.47	21	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Trichlorofluoromethane	NS	NS	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Vinyl Chloride	0.02	0.9	0.001 U	0.0011 U	0.00096 U	0.00098 U	0.0011 U
Xylenes, Total	0.26	100	0.002 U	0.0022 U	0.0019 U	0.002 U	0.0022 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212
		Laboratory Sample ID	460-317182-1	460-317182-2	460-317182-3	460-317182-4	460-317182-5
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1,2,2-Tetrachloroethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1,2-Trichloroethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1-Dichloroethane	0.27	26	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,1-Dichloroethene	0.33	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2,3-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2,4-Trichlorobenzene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2,4-Trimethylbenzene	3.6	52	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dichlorobenzene	1.1	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dichloroethane	0.02	3.1	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,2-Dichloropropane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,3-Dichlorobenzene	2.4	49	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
1,4-Dichlorobenzene	1.8	13	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
2-Hexanone	NS	NS	0.005 U	0.0055 U	0.0056 U	0.0053 U	0.0047 U
Acetone	0.05	100	0.006 U	0.0066 U	0.0067 U	0.0064 U	0.018
Benzene	0.06	4.8	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromochloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromodichloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromoform	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Bromomethane	NS	NS	0.002 U	0.0022 U	0.0022 U	0.0021 U	0.0019 U
Carbon Disulfide	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00075 J
Carbon Tetrachloride	0.76	2.4	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chlorobenzene	1.1	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chloroethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chloroform	0.37	49	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Chloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Cis-1,2-Dichloroethylene	0.25	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Cis-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Cyclohexane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Dibromochloromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Dichlorodifluoromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Ethylbenzene	1	41	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Isopropylbenzene (Cumene)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
M,P-Xylenes	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Methyl Acetate	NS	NS	0.005 U	0.0055 U	0.0056 U	0.0053 U	0.0047 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.005 U	0.0055 U	0.0056 U	0.0053 U	0.0065
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.005 UT	0.0055 UT	0.0056 UT	0.0053 UT	0.0047 UT
Methylcyclohexane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Methylene Chloride	0.05	100	0.002 U	0.0022 U	0.0022 U	0.0021 U	0.0011 J
N-Butylbenzene	12	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
N-Propylbenzene	3.9	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Sec-Butylbenzene	11	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Styrene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
T-Butylbenzene	5.9	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Tert-Butyl Methyl Ether	0.93	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Tetrachloroethylene (PCE)	1.3	19	0.0036	0.0026	0.001 J	0.00077 J	0.0059
Toluene	0.7	100	0.001 U	0.0011 U	0.0011 U	0.00035 J	0.00023 J
Trans-1,2-Dichloroethene	0.19	100	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Trans-1,3-Dichloropropene	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Trichloroethylene (TCE)	0.47	21	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Trichlorofluoromethane	NS	NS	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Vinyl Chloride	0.02	0.9	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00094 U
Xylenes, Total	0.26	100	0.002 U	0.0022 U	0.0022 U	0.0021 U	0.0019 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211
		Laboratory Sample ID	460-317182-6	460-317182-7	460-317182-8	460-317182-9	460-317091-3
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1,2-Trichloroethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1-Dichloroethane	0.27	26	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,1-Dichloroethene	0.33	100	0.0012 U	0.0014 U	0.0011 UT	0.0012 UT	0.001 U
1,2,3-Trichlorobenzene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2,4-Trichlorobenzene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2,4-Trimethylbenzene	3.6	52	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dichlorobenzene	1.1	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dichloroethane	0.02	3.1	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,2-Dichloropropane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,3-Dichlorobenzene	2.4	49	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
1,4-Dichlorobenzene	1.8	13	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
2-Hexanone	NS	NS	0.006 U	0.0069 U	0.0053 U	0.0059 U	0.005 U
Acetone	0.05	100	0.0072 U	0.0083 U	0.0063 U	0.0071 U	0.006 U
Benzene	0.06	4.8	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromochloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromodichloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromoform	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Bromomethane	NS	NS	0.0024 U	0.0028 U	0.0021 U	0.0024 U	0.002 U
Carbon Disulfide	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Carbon Tetrachloride	0.76	2.4	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chlorobenzene	1.1	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chloroethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chloroform	0.37	49	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Chloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Cis-1,2-Dichloroethylene	0.25	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Cis-1,3-Dichloropropene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Cyclohexane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Dibromochloromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Dichlorodifluoromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Ethylbenzene	1	41	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Isopropylbenzene (Cumene)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
M,P-Xylenes	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Methyl Acetate	NS	NS	0.006 U	0.0069 U	0.0053 U	0.0059 U	0.005 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.006 U	0.0069 U	0.0053 U	0.0059 U	0.005 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.006 UT	0.0069 UT	0.0053 U	0.0059 U	0.005 UT
Methylcyclohexane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Methylene Chloride	0.05	100	0.0024 U	0.0028 U	0.0021 U	0.0024 U	0.002 U
N-Butylbenzene	12	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
N-Propylbenzene	3.9	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Sec-Butylbenzene	11	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Styrene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
T-Butylbenzene	5.9	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Tert-Butyl Methyl Ether	0.93	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Tetrachloroethylene (PCE)	1.3	19	0.00076 J	0.0043	0.087	0.0023	0.0057
Toluene	0.7	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Trans-1,2-Dichloroethene	0.19	100	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Trans-1,3-Dichloropropene	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Trichloroethylene (TCE)	0.47	21	0.0012 U	0.0014 U	0.00038 J	0.0012 U	0.001 U
Trichlorofluoromethane	NS	NS	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Vinyl Chloride	0.02	0.9	0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.001 U
Xylenes, Total	0.26	100	0.0024 U	0.0028 U	0.0021 U	0.0024 U	0.002 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211
		Laboratory Sample ID	460-317091-4	460-317091-5	460-317091-10	460-317091-11	460-317091-8
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1-Dichloroethane	0.27	26	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2,4-Trimethylbenzene	3.6	52	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dichlorobenzene	1.1	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,2-Dichloropropane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,3-Dichlorobenzene	2.4	49	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
1,4-Dichlorobenzene	1.8	13	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
2-Hexanone	NS	NS	0.0053 U	0.0055 U	0.0053 U	0.0055 U	0.005 U
Acetone	0.05	100	0.0063 U	0.0066 U	0.0063 U	0.0066 U	0.006 U
Benzene	0.06	4.8	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromodichloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromoform	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Bromomethane	NS	NS	0.0021 U	0.0022 U	0.0021 U	0.0022 U	0.002 U
Carbon Disulfide	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chlorobenzene	1.1	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chloroethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chloroform	0.37	49	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Chloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Cis-1,2-Dichloroethylene	0.25	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Cyclohexane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Dibromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Dichlorodifluoromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Ethylbenzene	1	41	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
M,P-Xylenes	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Methyl Acetate	NS	NS	0.0053 U	0.0055 U	0.0053 U	0.0055 U	0.005 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0053 U	0.0055 U	0.0053 U	0.0055 U	0.005 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0053 UT	0.0055 UT	0.0053 UT	0.0055 UT	0.005 UT
Methylcyclohexane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Methylene Chloride	0.05	100	0.0021 U	0.0022 U	0.0021 U	0.0022 U	0.002 U
N-Butylbenzene	12	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
N-Propylbenzene	3.9	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Sec-Butylbenzene	11	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Styrene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
T-Butylbenzene	5.9	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Tetrachloroethylene (PCE)	1.3	19	0.00051 J	0.00073 J	0.0011 U	0.0011 U	0.002
Toluene	0.7	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trichloroethylene (TCE)	0.47	21	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 U
Xylenes, Total	0.26	100	0.0021 U	0.0022 U	0.0021 U	0.0022 U	0.002 U

Table 3
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0011 U	0.0011 U	0.00097 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,1-Dichloroethane	0.27	26	0.0011 U	0.0011 U	0.00097 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.0011 U	0.00097 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2,4-Trimethylbenzene	3.6	52	0.0011 U	0.0011 U	0.00097 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,2-Dichlorobenzene	1.1	100	0.0011 U	0.0011 U	0.00097 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0011 U	0.00097 U
1,2-Dichloropropane	NS	NS	0.0011 U	0.0011 U	0.00097 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0011 U	0.0011 U	0.00097 U
1,3-Dichlorobenzene	2.4	49	0.0011 U	0.0011 U	0.00097 U
1,4-Dichlorobenzene	1.8	13	0.0011 U	0.0011 U	0.00097 U
2-Hexanone	NS	NS	0.0055 U	0.0053 U	0.0049 U
Acetone	0.05	100	0.0066 U	0.0063 U	0.0058 U
Benzene	0.06	4.8	0.0011 U	0.0011 U	0.00097 U
Bromochloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Bromodichloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Bromoform	NS	NS	0.0011 U	0.0011 U	0.00097 U
Bromomethane	NS	NS	0.0022 U	0.0021 U	0.0019 U
Carbon Disulfide	NS	NS	0.0011 U	0.0011 U	0.00097 U
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.0011 U	0.00097 U
Chlorobenzene	1.1	100	0.0011 U	0.0011 U	0.00097 U
Chloroethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Chloroform	0.37	49	0.0011 U	0.0011 U	0.00097 U
Chloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Cis-1,2-Dichloroethylene	0.25	100	0.0011 U	0.0011 U	0.00097 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.00097 U
Cyclohexane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Dibromochloromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Dichlorodifluoromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Ethylbenzene	1	41	0.0011 U	0.0011 U	0.00097 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 U	0.0011 U	0.00097 U
M,P-Xylenes	NS	NS	0.0011 U	0.0011 U	0.00097 U
Methyl Acetate	NS	NS	0.0055 U	0.0053 U	0.0049 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0055 U	0.0053 U	0.0049 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0055 UT	0.0053 UT	0.0049 UT
Methylcyclohexane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Methylene Chloride	0.05	100	0.0022 U	0.0021 U	0.0019 U
N-Butylbenzene	12	100	0.0011 U	0.0011 U	0.00097 U
N-Propylbenzene	3.9	100	0.0011 U	0.0011 U	0.00097 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0011 U	0.0011 U	0.00097 U
Sec-Butylbenzene	11	100	0.0011 U	0.0011 U	0.00097 U
Styrene	NS	NS	0.0011 U	0.0011 U	0.00097 U
T-Butylbenzene	5.9	100	0.0011 U	0.0011 U	0.00097 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.0011 U	0.00097 U
Tetrachloroethylene (PCE)	1.3	19	0.0079	0.00088 J	0.012
Toluene	0.7	100	0.0011 U	0.0011 U	0.00097 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.0011 U	0.00097 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.00097 U
Trichloroethylene (TCE)	0.47	21	0.0011 U	0.0011 U	0.00097 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.0011 U	0.00097 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.0011 U	0.00097 U
Xylenes, Total	0.26	100	0.0022 U	0.0021 U	0.0019 U

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213	SB-09_0-2_20241212
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3	460-317182-1
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,6-Trichlorophenol	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dichlorophenol	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.067 U	0.067 U	0.067 U	0.067 U
2,6-Dinitrotoluene	NS	NS	0.072 U	0.072 U	0.067 U	0.067 U	0.067 U	0.067 U
2-Chloronaphthalene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Chlorophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylnaphthalene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitrophenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
3- And 4- Methylphenol (Total)	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
3,3'-Dichlorobenzidine	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
3-Nitroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Methylphenol (P-Cresol)	0.33	100	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitroaniline	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitrophenol	NS	NS	0.72 U	0.72 U	0.67 U	0.67 U	0.67 U	0.67 U
Acenaphthene	20	100	0.35 U	0.021 J	0.33 U	0.33 U	0.33 U	0.33 U
Acenaphthylene	100	100	0.35 U	0.021 J	0.016 J	0.33 U	0.33 U	0.33 U
Acetophenone	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Anthracene	100	100	0.014 J	0.065 J	0.028 J	0.011 J	0.33 U	0.013 J
Atrazine	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
Benzaldehyde	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(a)Anthracene	**1**	1	0.081	0.32	0.17	0.074	0.033 U	0.091
Benzo(a)Pyrene	**1**	1	0.074	0.32	0.16	0.08	0.033 U	0.096
Benzo(b)Fluoranthene	**1**	1	0.097	0.41	0.21	0.11	0.033 U	0.13
Benzo(g,h,i)Perylene	100	100	0.06 J	0.2 J	0.12 J	0.059 J	0.33 U	0.067 J
Benzo(k)Fluoranthene	**0.8**	3.9	0.045	0.15	0.082	0.04	0.033 U	0.044
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.35 U	0.046 J	0.33 U	0.33 U	0.33 U	0.33 U
Caprolactam	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Carbazole	NS	NS	0.35 U	0.026 J	0.33 U	0.33 U	0.33 U	0.33 U
Chrysene	**1**	3.9	0.079 J	0.34 J	0.18 J	0.076 J	0.33 U	0.099 J
Dibenz(a,h)Anthracene	0.33	0.33	0.035 U	0.045	0.033	0.015 J	0.033 U	0.017 J
Dibenzofuran	7	59	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Diethyl Phthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Dimethyl Phthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.013 J	0.33 U	0.33 U	0.33 U	0.33 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Fluoranthene	100	100	0.14 J	0.61	0.23 J	0.11 J	0.33 U	0.15 J
Fluorene	30	100	0.35 U	0.017 J	0.33 U	0.33 U	0.33 U	0.33 U
Hexachlorobenzene	0.33	1.2	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
Hexachlorobutadiene	NS	NS	0.072 U	0.072 U	0.067 U	0.067 U	0.067 U	0.067 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Hexachloroethane	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.053	0.19	0.11	0.055	0.033 U	0.064
Isophorone	NS	NS	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
Naphthalene	12	100	0.35 U	0.009 J	0.33 U	0.33 U	0.33 U	0.33 U
Nitrobenzene	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodi-N-Propylamine	NS	NS	0.035 U	0.035 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Pentachlorophenol	0.8	6.7	0.29 U	0.29 U	0.27 U	0.27 U	0.27 U	0.27 U
Phenanthrene	100	100	0.068 J	0.32 J	0.11 J	0.052 J	0.33 U	0.065 J
Phenol	0.33	100	0.35 U	0.35 U	0.33 U	0.33 U	0.33 U	0.33 U
Pyrene	100	100	0.13 J	0.6	0.27 J	0.11 J	0.33 U	0.14 J

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212	SB-10_8-10_20241212	SB-11_0-2_20241212
		Laboratory Sample ID	460-317182-2	460-317182-3	460-317182-4	460-317182-5	460-317182-6	460-317182-7
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,5-Trichlorophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,6-Trichlorophenol	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dichlorophenol	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,4-Dimethylphenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4-Dinitrophenol	NS	NS	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.067 U	0.068 U	0.067 U	0.067 U
2,6-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.067 U	0.068 U	0.067 U	0.067 U
2-Chloronaphthalene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Chlorophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylnaphthalene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylphenol (O-Cresol)	0.33	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitrophenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3- And 4- Methylphenol (Total)	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3,3'-Dichlorobenzidine	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
3-Nitroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
4-Bromophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloro-3-Methylphenol	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Methylphenol (P-Cresol)	0.33	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitroaniline	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitrophenol	NS	NS	0.67 U	0.67 U	0.67 U	0.68 U	0.67 U	0.67 U
Acenaphthene	20	100	0.33 U	0.33 U	0.0097 J	0.0097 J	0.33 U	0.017 J
Acenaphthylene	100	100	0.33 U	0.33 U	0.012 J	0.051 J	0.33 U	0.33 U
Acetophenone	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Anthracene	100	100	0.33 U	0.33 U	0.034 J	0.086 J	0.33 U	0.028 J
Atrazine	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Benzaldehyde	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(a)Anthracene	**1**	1	0.033 U	0.033 U	0.19	0.61	0.033 U	0.075
Benzo(a)Pyrene	**1**	1	0.033 U	0.033 U	0.21	0.6	0.033 U	0.066
Benzo(b)Fluoranthene	**1**	1	0.033 U	0.033 U	0.25	0.67	0.033 U	0.092
Benzo(g,h,i)Perylene	100	100	0.33 U	0.33 U	0.12 J	0.39	0.33 U	0.039 J
Benzo(k)Fluoranthene	**0.8**	3.9	0.033 U	0.033 U	0.098	0.26	0.033 U	0.027 J
Benzyl Butyl Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Biphenyl (Diphenyl)	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Caprolactam	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Carbazole	NS	NS	0.33 U	0.33 U	0.014 J	0.014 J	0.33 U	0.013 J
Chrysene	**1**	3.9	0.33 U	0.33 U	0.2 J	0.61	0.33 U	0.087 J
Dibenz(a,h)Anthracene	0.33	0.33	0.033 U	0.033 U	0.032 J	0.097	0.033 U	0.033 U
Dibenzofuran	7	59	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Diethyl Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Dimethyl Phthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Di-N-Butyl Phthalate	NS	NS	0.33 U	0.33 U	0.024 J	0.33 U	0.33 U	0.33 U
Di-N-Octylphthalate	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Fluoranthene	100	100	0.33 U	0.33 U	0.34	1	0.33 U	0.16 J
Fluorene	30	100	0.33 U	0.33 U	0.33 U	0.01 J	0.33 U	0.01 J
Hexachlorobenzene	0.33	1.2	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
Hexachlorobutadiene	NS	NS	0.067 U	0.067 U	0.067 U	0.068 U	0.067 U	0.067 U
Hexachlorocyclopentadiene	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Hexachloroethane	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.033 U	0.033 U	0.12	0.36	0.033 U	0.036
Isophorone	NS	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Naphthalene	12	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Nitrobenzene	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodi-N-Propylamine	NS	NS	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U
N-Nitrosodiphenylamine	NS	NS	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Pentachlorophenol	0.8	6.7	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Phenanthrene	100	100	0.33 U	0.33 U	0.17 J	0.29 J	0.33 U	0.11 J
Phenol	0.33	100	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Pyrene	100	100	0.33 U	0.33 U	0.34	1.2	0.33 U	0.14 J

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211
		Laboratory Sample ID	460-317182-8	460-317182-9	460-317091-3	460-317091-4	460-317091-5	460-317091-10
		Date Sampled	12/12/2024	12/12/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2,4,5-Trichlorophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2,4,6-Trichlorophenol	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
2,4-Dichlorophenol	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
2,4-Dimethylphenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2,4-Dinitrophenol	NS	NS	0.27 U	0.27 U	0.28 U	0.27 U	0.27 U	0.3 U
2,4-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.07 U	0.068 U	0.069 U	0.076 U
2,6-Dinitrotoluene	NS	NS	0.067 U	0.067 U	0.07 U	0.068 U	0.069 U	0.076 U
2-Chloronaphthalene	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Chlorophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Methylnaphthalene	NS	NS	0.034 J	0.33 U	0.35 U	0.33 U	0.34 U	0.059 J
2-Methylphenol (O-Cresol)	0.33	100	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Nitroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
2-Nitrophenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
3- And 4- Methylphenol (Total)	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
3,3'-Dichlorobenzidine	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
3-Nitroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.27 U	0.27 U	0.28 U	0.27 U	0.27 U	0.3 U
4-Bromophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Chloro-3-Methylphenol	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Chloroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Methylphenol (P-Cresol)	0.33	100	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Nitroaniline	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
4-Nitrophenol	NS	NS	0.67 U	0.67 U	0.7 U	0.68 U	0.69 U	0.76 U
Acenaphthene	20	100	0.29 J	0.33 U	0.35 U	0.33 U	0.34 U	0.26 J
Acenaphthylene	100	100	0.021 J	0.33 U	0.01 J	0.33 U	0.34 U	0.11 J
Acetophenone	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Anthracene	100	100	0.35	0.33 U	0.019 J	0.33 U	0.34 U	0.9
Atrazine	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
Benzaldehyde	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Benzo(a)Anthracene	**1**	1	0.87	0.033 U	0.12	0.033 U	0.034 U	**2.5**
Benzo(a)Pyrene	**1**	1	0.84	0.033 U	0.13	0.033 U	0.034 U	**2.2**
Benzo(b)Fluoranthene	**1**	1	**1.1**	0.033 U	0.16	0.033 U	0.034 U	**2.9**
Benzo(g,h,i)Perylene	100	100	0.42	0.33 U	0.077 J	0.33 U	0.34 U	1.2
Benzo(k)Fluoranthene	**0.8**	3.9	0.42	0.033 U	0.06	0.033 U	0.034 U	**1.1**
Benzyl Butyl Phthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Biphenyl (Diphenyl)	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.021 J
Bis(2-Chloroethoxy) Methane	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.05 J	0.33 U	0.023 J	0.33 U	0.34 U	0.05 J
Caprolactam	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Carbazole	NS	NS	0.15 J	0.33 U	0.35 U	0.33 U	0.34 U	0.37 J
Chrysene	**1**	3.9	0.86	0.33 U	0.13 J	0.33 U	0.34 U	**2.4**
Dibenz(a,h)Anthracene	0.33	0.33	0.11	0.033 U	0.018 J	0.033 U	0.034 U	0.31
Dibenzofuran	7	59	0.094 J	0.33 U	0.35 U	0.33 U	0.34 U	0.15 J
Diethyl Phthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Dimethyl Phthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Di-N-Butyl Phthalate	NS	NS	0.017 J	0.33 U	0.35 U	0.038 J	0.013 J	0.046 J
Di-N-Octylphthalate	NS	NS	0.33 U	0.33 U	0.35 U	0.6	0.19 J	0.38 U
Fluoranthene	100	100	2	0.33 U	0.22 J	0.33 U	0.34 U	5.5
Fluorene	30	100	0.17 J	0.33 U	0.35 U	0.33 U	0.34 U	0.23 J
Hexachlorobenzene	0.33	1.2	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
Hexachlorobutadiene	NS	NS	0.067 U	0.067 U	0.07 U	0.068 U	0.069 U	0.076 U
Hexachlorocyclopentadiene	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Hexachloroethane	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.41	0.033 U	0.077	0.033 U	0.034 U	**1.2**
Isophorone	NS	NS	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.15 U
Naphthalene	12	100	0.053 J	0.33 U	0.35 U	0.33 U	0.34 U	0.074 J
Nitrobenzene	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
N-Nitrosodi-N-Propylamine	NS	NS	0.033 U	0.033 U	0.035 U	0.033 U	0.034 U	0.038 U
N-Nitrosodiphenylamine	NS	NS	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Pentachlorophenol	0.8	6.7	0.27 U	0.27 U	0.28 U	0.27 U	0.27 U	0.3 U
Phenanthrene	100	100	1.6	0.33 U	0.1 J	0.33 U	0.017 J	4.3
Phenol	0.33	100	0.33 U	0.33 U	0.35 U	0.33 U	0.34 U	0.38 U
Pyrene	100	100	1.7	0.33 U	0.21 J	0.33 U	0.013 J	4.7

Table 4
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-13_2-4_20241211	SB-14_0-2_20241211	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-11	460-317091-8	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2,4,6-Trichlorophenol	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
2,4-Dichlorophenol	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
2,4-Dimethylphenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2,4-Dinitrophenol	NS	NS	0.29 U	0.29 U	0.29 U	0.28 U	0.28 U
2,4-Dinitrotoluene	NS	NS	0.074 U	0.074 U	0.072 U	0.071 U	0.069 U
2,6-Dinitrotoluene	NS	NS	0.074 U	0.074 U	0.072 U	0.071 U	0.069 U
2-Chloronaphthalene	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Chlorophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Methylnaphthalene	NS	NS	0.36 U	0.084 J	0.094 J	0.35 U	0.028 J
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Nitroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
2-Nitrophenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
3- And 4- Methylphenol (Total)	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
3,3'-Dichlorobenzidine	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
3-Nitroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.29 U	0.29 U	0.28 U	0.28 U
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Chloroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Methylphenol (P-Cresol)	0.33	100	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Nitroaniline	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
4-Nitrophenol	NS	NS	0.74 U	0.74 U	0.72 U	0.71 U	0.69 U
Acenaphthene	20	100	0.36 U	0.21 J	0.32 J	0.044 J	0.24 J
Acenaphthylene	100	100	0.36 U	0.18 J	0.27 J	0.023 J	0.13 J
Acetophenone	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Anthracene	100	100	0.02 J	0.93	1	0.089 J	0.47
Atrazine	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
Benzaldehyde	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Benzo(a)Anthracene	**1**	1	0.06	**1.9**	**2.8**	0.42	**1.7**
Benzo(a)Pyrene	**1**	1	0.044	**1.6**	**2.7**	0.44	**1.8**
Benzo(b)Fluoranthene	**1**	1	0.055	**2.2**	**3.8**	0.58	**2.5**
Benzo(g,h,i)Perylene	100	100	0.031 J	0.69	1.3	0.22 J	0.96
Benzo(k)Fluoranthene	**0.8**	3.9	0.025 J	**0.82**	**1.4**	0.22	**0.94**
Benzyl Butyl Phthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Biphenyl (Diphenyl)	NS	NS	0.36 U	0.026 J	0.028 J	0.35 U	0.34 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	0.8	0.24 J	0.35 U	0.34 U
Caprolactam	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Carbazole	NS	NS	0.36 U	0.29 J	0.43	0.034 J	0.23 J
Chrysene	**1**	3.9	0.053 J	**1.8**	**2.8**	0.41	**1.7**
Dibenz(a,h)Anthracene	0.33	0.33	0.036 U	0.19	0.32	0.051	0.23
Dibenzofuran	7	59	0.36 U	0.23 J	0.21 J	0.35 U	0.078 J
Diethyl Phthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Dimethyl Phthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	0.071 J	0.032 J	0.35 U	0.036 J
Di-N-Octylphthalate	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Fluoranthene	100	100	0.11 J	4.3	5.9	0.77	3.5
Fluorene	30	100	0.36 U	0.28 J	0.31 J	0.025 J	0.16 J
Hexachlorobenzene	0.33	1.2	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
Hexachlorobutadiene	NS	NS	0.074 U	0.074 U	0.072 U	0.071 U	0.069 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Hexachloroethane	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
Indeno(1,2,3-c,d)Pyrene	**0.5**	0.5	0.032 J	**0.77**	**1.4**	0.23	**1.1**
Isophorone	NS	NS	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U
Naphthalene	12	100	0.36 U	0.069 J	0.12 J	0.0085 J	0.067 J
Nitrobenzene	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	0.036 U	0.036 U	0.035 U	0.034 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Pentachlorophenol	0.8	6.7	0.29 U	0.29 U	0.29 U	0.28 U	0.28 U
Phenanthrene	100	100	0.09 J	4.1	4.6	0.38	2
Phenol	0.33	100	0.36 U	0.36 U	0.36 U	0.35 U	0.34 U
Pyrene	100	100	0.11 J	3.6	5.1	0.7	2.9

Table 5
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	5,950	5,770	8,140	2,730
Antimony	NS	NS	0.93 U	0.81 J	0.9 U	0.38 J	0.92 U
Arsenic	13	16	2.4	4.5	2.3	12.7	0.99
Barium	350	400	40.5	117	55.4	51.8	25.1
Beryllium	7.2	72	0.25 J	0.31 J	0.27 J	0.35 J	0.12 J
Cadmium	2.5	4.3	0.93 U	0.55 J	0.33 J	0.26 J	0.92 U
Calcium	NS	NS	6,550	4,010	24,400	2,100	1,380
Chromium, Total	NS	NS	12.1	16.2	10.7	14.4	3.1
Cobalt	NS	NS	4.7	5.7	3.9	5.6	0.75 J
Copper	**50**	270	18.2	**50.5**	23.4	**62.3**	5.3
Iron	NS	NS	10,800	17,100	9,120	15,700	11,100
Lead	**63**	400	57.4	**237**	44.3	62.5	1.7
Magnesium	NS	NS	3,950	3,410	5,300	2,370	422
Manganese	1,600	2,000	203	299	194	280	263
Mercury	**0.18**	0.81	0.062	0.084	0.043	0.064	0.016 U
Nickel	30	310	10.9	16.9	9.8	10.7	1.7 J
Potassium	NS	NS	968	741	800	636	896
Selenium	3.9	180	1.2 U	0.27 J	0.14 J	0.33 J	1.2 U
Silver	2	180	0.37 U	0.13 J	0.36 U	0.23 J	0.37 U
Sodium	NS	NS	88.9 J	90.8 J	192	65.9 J	256
Thallium	NS	NS	0.073 J	0.091 J	0.073 J	0.17 J	0.044 J
Vanadium	NS	NS	20.5	31.6	16	21.9	2.5
Zinc	**109**	10,000	50	**173**	63.5	48.5	44

Table 5
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212
		Laboratory Sample ID	460-317091-1	460-317182-1	460-317182-2	460-317182-3	460-317182-4
		Date Sampled	12/11/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	6,190	3,520	1,980	5,680
Antimony	NS	NS	0.93 U	0.83 U	0.89 U	0.88 U	0.17 J
Arsenic	13	16	2.4	3.4	0.82 J	0.36 J	2.2
Barium	350	400	40.5	38.7	23.8	12.2	53.9
Beryllium	7.2	72	0.25 J	0.22 J	0.19 J	0.12 J	0.26 J
Cadmium	2.5	4.3	0.93 U	0.12 J	0.89 U	0.88 U	0.2 J
Calcium	NS	NS	6,550	20,300	783	18,800	5,860
Chromium, Total	NS	NS	12.1	11.4	6.9	4	14.6
Cobalt	NS	NS	4.7	5.5	3.2	1.7 J	4.9
Copper	**50**	270	18.2	18.2	12.3	4.3	23.6
Iron	NS	NS	10,800	11,700	7,520	3,700	11,400
Lead	**63**	400	57.4	44.7	4.9	1.2	**379**
Magnesium	NS	NS	3,950	4,060	1,720	9,170	5,110
Manganese	1,600	2,000	203	178	184	129	255
Mercury	**0.18**	0.81	0.062	0.059	0.015 U	0.016 U	0.067
Nickel	30	310	10.9	14.7	7.2	3.5	12.9
Potassium	NS	NS	968	853	549	316	1,090
Selenium	3.9	180	1.2 U	0.11 J	1.1 U	1.1 U	0.2 J
Silver	2	180	0.37 U	0.33 U	0.36 U	0.35 U	0.39 U
Sodium	NS	NS	88.9 J	521	234	152	371
Thallium	NS	NS	0.073 J	0.059 J	0.039 J	0.35 U	0.086 J
Vanadium	NS	NS	20.5	15.3	8.5	5	19.5
Zinc	**109**	10,000	50	43.8	16.6	10	62.8

Table 5
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-10_2-4_20241212	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212
		Laboratory Sample ID	460-317091-1	460-317182-5	460-317182-6	460-317182-7	460-317182-8
		Date Sampled	12/11/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	3,470	7,110	7,140	7,800
Antimony	NS	NS	0.93 U	0.9 U	0.89 U	0.9 U	0.93 U
Arsenic	13	16	2.4	0.95	1.9	1.8	10
Barium	350	400	40.5	31.4	41	30.6	62.9
Beryllium	7.2	72	0.25 J	0.15 J	0.31 J	0.24 J	0.33 J
Cadmium	2.5	4.3	0.93 U	0.9 U	0.89 U	0.9 U	0.33 J
Calcium	NS	NS	6,550	1,240	12,900	10,000	2,070
Chromium, Total	NS	NS	12.1	9.7	25	12.2	24.5
Cobalt	NS	NS	4.7	3.1	6.6	6.1	8
Copper	**50**	270	18.2	13.4	45.5	16.6	**52.8**
Iron	NS	NS	10,800	6,230	18,000	11,300	15,300
Lead	**63**	400	57.4	23.9	3.4	10.5	**94.5**
Magnesium	NS	NS	3,950	1,820	6,260	3,730	3,730
Manganese	1,600	2,000	203	155	309	213	353
Mercury	**0.18**	0.81	0.062	0.049	0.016 U	0.054	0.1
Nickel	30	310	10.9	7.9	15.2	15.4	19.8
Potassium	NS	NS	968	585	771	810	1,140
Selenium	3.9	180	1.2 U	1.1 U	1.1 U	1.1 U	0.2 J
Silver	2	180	0.37 U	0.36 U	0.36 U	0.36 U	0.089 J
Sodium	NS	NS	88.9 J	249	862	308	289
Thallium	NS	NS	0.073 J	0.048 J	0.068 J	0.063 J	0.12 J
Vanadium	NS	NS	20.5	10.8	44.5	25.4	32
Zinc	**109**	10,000	50	39.3	30.4	27.1	**136**

Table 5
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-11_4-6_20241212	SB-12_0-2_20241211	SB-12_8-10_20241211	SB-12_10-12_20241211
		Laboratory Sample ID	460-317091-1	460-317182-9	460-317091-3	460-317091-4	460-317091-5
		Date Sampled	12/11/2024	12/12/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	4,200	6,270	4,420	3,880
Antimony	NS	NS	0.93 U	0.85 U	1 U	0.97 U	0.88 U
Arsenic	13	16	2.4	0.88	3.3	4.2	0.81 J
Barium	350	400	40.5	35.3	68.1	29.8	24.9
Beryllium	7.2	72	0.25 J	0.17 J	0.28 J	0.39	0.15 J
Cadmium	2.5	4.3	0.93 U	0.85 U	0.2 J	0.12 J	0.88 U
Calcium	NS	NS	6,550	1,530	8,180	6,330	7,100
Chromium, Total	NS	NS	12.1	9.7	12.8	8.7	8.3
Cobalt	NS	NS	4.7	3.8	4.1	4	3.6
Copper	**50**	270	18.2	16.4	20.4	13.1	17.4
Iron	NS	NS	10,800	8,180	9,960	8,470	7,990
Lead	**63**	400	57.4	3	**109**	4.3	4.6
Magnesium	NS	NS	3,950	2,290	4,210	4,930	5,350
Manganese	1,600	2,000	203	224	177	219	164
Mercury	**0.18**	0.81	0.062	0.016 U	0.024	0.016 U	0.025
Nickel	30	310	10.9	9.1	11	7.5	7.4
Potassium	NS	NS	968	578	716	1,100	1,010
Selenium	3.9	180	1.2 U	1.1 U	0.24 J	0.16 J	1.1 U
Silver	2	180	0.37 U	0.34 U	0.4 U	0.39 U	0.35 U
Sodium	NS	NS	88.9 J	188	149	181	166
Thallium	NS	NS	0.073 J	0.053 J	0.077 J	0.075 J	0.061 J
Vanadium	NS	NS	20.5	12.9	21.7	12	14.2
Zinc	**109**	10,000	50	17	74.3	29.8	21.6

Table 5
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211	SB-14_2-4_20241211
		Laboratory Sample ID	460-317091-1	460-317091-10	460-317091-11	460-317091-8	460-317091-9
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	6,520	8,030	4,700	5,890
Antimony	NS	NS	0.93 U	0.16 J	0.89 U	0.91 U	0.19 J
Arsenic	13	16	2.4	7.2	2.7	3.5	3.5
Barium	350	400	40.5	47.9	26.2	56	57.8
Beryllium	7.2	72	0.25 J	0.28 J	0.27 J	0.22 J	0.28 J
Cadmium	2.5	4.3	0.93 U	0.15 J	0.89 U	0.31 J	0.33 J
Calcium	NS	NS	6,550	15,400	889	4,600	5,860
Chromium, Total	NS	NS	12.1	10.7	14.9	15.9	15.1
Cobalt	NS	NS	4.7	4.2	4.9	4.6	5.8
Copper	**50**	270	18.2	30.6	15.4	25.5	41.2
Iron	NS	NS	10,800	12,000	11,300	9,250	10,900
Lead	**63**	400	57.4	41.8	6.2	**72**	**131**
Magnesium	NS	NS	3,950	4,760	2,280	4,030	3,870
Manganese	1,600	2,000	203	169	210	443	270
Mercury	**0.18**	0.81	0.062	**0.27**	0.018 U	0.079	0.11
Nickel	30	310	10.9	10.3	11.3	11.4	12.9
Potassium	NS	NS	968	580	875	746	878
Selenium	3.9	180	1.2 U	0.2 J	0.12 J	0.16 J	0.2 J
Silver	2	180	0.37 U	0.091 J	0.36 U	0.084 J	0.3 J
Sodium	NS	NS	88.9 J	67.2 J	81 J	103	151
Thallium	NS	NS	0.073 J	0.081 J	0.087 J	0.13 J	0.095 J
Vanadium	NS	NS	20.5	17.4	17.5	41.4	18.1
Zinc	**109**	10,000	50	50.2	23.8	59.2	87.7

Table 5
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-04_0-2_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-1	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
Aluminum	NS	NS	6,570	5,480	5,720
Antimony	NS	NS	0.93 U	0.93 U	0.18 J
Arsenic	13	16	2.4	2.7	3.3
Barium	350	400	40.5	43.5	57.8
Beryllium	7.2	72	0.25 J	0.25 J	0.27 J
Cadmium	2.5	4.3	0.93 U	0.2 J	0.25 J
Calcium	NS	NS	6,550	4,540	3,950
Chromium, Total	NS	NS	12.1	17	13.8
Cobalt	NS	NS	4.7	4.7	4.8
Copper	**50**	270	18.2	21.9	29.1
Iron	NS	NS	10,800	9,580	10,900
Lead	**63**	400	57.4	49.6	**90**
Magnesium	NS	NS	3,950	3,290	3,120
Manganese	1,600	2,000	203	206	239
Mercury	**0.18**	0.81	0.062	0.049	0.043
Nickel	30	310	10.9	12.2	12
Potassium	NS	NS	968	890	871
Selenium	3.9	180	1.2 U	1.2 U	0.17 J
Silver	2	180	0.37 U	0.37 U	0.087 J
Sodium	NS	NS	88.9 J	165	184
Thallium	NS	NS	0.073 J	0.067 J	0.08 J
Vanadium	NS	NS	20.5	16.2	19.5
Zinc	**109**	10,000	50	55	**126**

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1221 (Aroclor 1221)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1232 (Aroclor 1232)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1242 (Aroclor 1242)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1248 (Aroclor 1248)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1254 (Aroclor 1254)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1260 (Aroclor 1260)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1262 (Aroclor 1262)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
PCB-1268 (Aroclor 1268)	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U
Total PCBs	0.1	1	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212
		Laboratory Sample ID	460-317182-1	460-317182-2	460-317182-3	460-317182-4	460-317182-5
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1221 (Aroclor 1221)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1232 (Aroclor 1232)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1242 (Aroclor 1242)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1248 (Aroclor 1248)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1254 (Aroclor 1254)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1260 (Aroclor 1260)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1262 (Aroclor 1262)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
PCB-1268 (Aroclor 1268)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
Total PCBs	0.1	1	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211
		Laboratory Sample ID	460-317182-6	460-317182-7	460-317182-8	460-317182-9	460-317091-3
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1221 (Aroclor 1221)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1232 (Aroclor 1232)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1242 (Aroclor 1242)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1248 (Aroclor 1248)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1254 (Aroclor 1254)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1260 (Aroclor 1260)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1262 (Aroclor 1262)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
PCB-1268 (Aroclor 1268)	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U
Total PCBs	0.1	1	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211
		Laboratory Sample ID	460-317091-4	460-317091-5	460-317091-10	460-317091-11	460-317091-8
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1221 (Aroclor 1221)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1232 (Aroclor 1232)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1242 (Aroclor 1242)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1248 (Aroclor 1248)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1254 (Aroclor 1254)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1260 (Aroclor 1260)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1262 (Aroclor 1262)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
PCB-1268 (Aroclor 1268)	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U
Total PCBs	0.1	1	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U

Table 6
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Polychlorinated Biphenyls (PCBs)

		AKRF Sample ID	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1221 (Aroclor 1221)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1232 (Aroclor 1232)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1242 (Aroclor 1242)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1248 (Aroclor 1248)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1254 (Aroclor 1254)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1260 (Aroclor 1260)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1262 (Aroclor 1262)	NS	NS	0.072 U	0.071 U	0.069 U
PCB-1268 (Aroclor 1268)	NS	NS	0.072 U	0.071 U	0.069 U
Total PCBs	0.1	1	0.072 U	0.071 U	0.069 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-04_0-2_20241211	SB-04_2-4_20241211	SB-08_0-2_20241213	SB-08_2-4_20241213	SB-08_9-11_20241213
		Laboratory Sample ID	460-317091-1	460-317091-2	460-317270-1	460-317270-2	460-317270-3
		Date Sampled	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/13/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Alpha Endosulfan	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Beta Endosulfan	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
cis-Chlordane	0.094	4.2	0.0071 U	0.0072 U	0.021	0.0067 U	0.0067 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Dieldrin	0.005	0.2	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Endosulfan Sulfate	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Endrin Aldehyde	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Endrin Ketone	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Gamma Bhc (Lindane)	0.1	1.3	0.0021 U	0.0021 U	0.002 U	0.002 U	0.002 U
Heptachlor	0.042	2.1	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Heptachlor Epoxide	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
Methoxychlor	NS	NS	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDD	0.0033	13	0.0071 U	0.0072 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDE	**0.0033**	8.9	0.0071 U	0.0072 U	**0.0036 J**	0.0067 U	0.0067 U
P,P'-DDT	**0.0033**	7.9	0.0071 U	0.0072 U	**0.0084**	0.0067 U	0.0067 U
Toxaphene	NS	NS	0.071 U	0.072 U	0.067 U	0.067 U	0.067 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-09_0-2_20241212	SB-09_8-10_20241212	SB-09_10-12_20241212	SB-10_0-2_20241212	SB-10_2-4_20241212
		Laboratory Sample ID	460-317182-1	460-317182-2	460-317182-3	460-317182-4	460-317182-5
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Alpha Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Beta Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
cis-Chlordane	0.094	4.2	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Dieldrin	0.005	0.2	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Endosulfan Sulfate	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Endrin Aldehyde	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Endrin Ketone	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Gamma Bhc (Lindane)	0.1	1.3	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Heptachlor	0.042	2.1	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Heptachlor Epoxide	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Methoxychlor	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDD	0.0033	13	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDE	**0.0033**	8.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
P,P'-DDT	**0.0033**	7.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Toxaphene	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-10_8-10_20241212	SB-11_0-2_20241212	SB-11_2-4_20241212	SB-11_4-6_20241212	SB-12_0-2_20241211
		Laboratory Sample ID	460-317182-6	460-317182-7	460-317182-8	460-317182-9	460-317091-3
		Date Sampled	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Alpha Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Beta Endosulfan	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
cis-Chlordane	0.094	4.2	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Dieldrin	0.005	0.2	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Endosulfan Sulfate	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Endrin Aldehyde	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Endrin Ketone	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Gamma Bhc (Lindane)	0.1	1.3	0.002 U	0.002 U	0.002 U	0.002 U	0.0021 U
Heptachlor	0.042	2.1	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Heptachlor Epoxide	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Methoxychlor	NS	NS	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
P,P'-DDD	0.0033	13	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
P,P'-DDE	**0.0033**	8.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
P,P'-DDT	**0.0033**	7.9	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.007 U
Toxaphene	NS	NS	0.067 U	0.067 U	0.067 U	0.067 U	0.07 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-12_8-10_20241211	SB-12_10-12_20241211	SB-13_0-2_20241211	SB-13_2-4_20241211	SB-14_0-2_20241211
		Laboratory Sample ID	460-317091-4	460-317091-5	460-317091-10	460-317091-11	460-317091-8
		Date Sampled	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Alpha Endosulfan	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Beta Endosulfan	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
cis-Chlordane	0.094	4.2	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Dieldrin	0.005	0.2	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Endosulfan Sulfate	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U	0 U	0 U
Endrin	0.014	11	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Endrin Aldehyde	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Endrin Ketone	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Gamma Bhc (Lindane)	0.1	1.3	0.002 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U
Heptachlor	0.042	2.1	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Heptachlor Epoxide	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Methoxychlor	NS	NS	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
P,P'-DDD	0.0033	13	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
P,P'-DDE	**0.0033**	8.9	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
P,P'-DDT	**0.0033**	7.9	0.0068 U	0.0069 U	0.0076 U	0.0073 U	0.0074 U
Toxaphene	NS	NS	0.068 U	0.069 U	0.076 U	0.073 U	0.074 U

Table 7
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-14_2-4_20241211	SB-15_0-2_20241211	SB-15_2-4_20241211
		Laboratory Sample ID	460-317091-9	460-317091-6	460-317091-7
		Date Sampled	12/11/2024	12/11/2024	12/11/2024
		Unit	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0072 U	0.0071 U	0.0069 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.0022 U	0.0021 U	0.0021 U
Alpha Endosulfan	NS	NS	0.0072 U	0.0071 U	0.0069 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.0022 U	0.0021 U	0.0021 U
Beta Endosulfan	NS	NS	0.0072 U	0.0071 U	0.0069 U
cis-Chlordane	0.094	4.2	0.0072 U	0.0071 U	0.0035 JP
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0022 U	0.0021 U	0.0021 U
Dieldrin	0.005	0.2	0.0022 U	0.0021 U	0.0021 U
Endosulfan Sulfate	NS	NS	0.0072 U	0.0071 U	0.0069 U
Endosulfans ABS	2.4	24	0 U	0 U	0 U
Endrin	0.014	11	0.0072 U	0.0071 U	0.0069 U
Endrin Aldehyde	NS	NS	0.0072 U	0.0071 U	0.0069 U
Endrin Ketone	NS	NS	0.0072 U	0.0071 U	0.0069 U
Gamma Bhc (Lindane)	0.1	1.3	0.0022 U	0.0021 U	0.0021 U
Heptachlor	0.042	2.1	0.0072 U	0.0071 U	0.0069 U
Heptachlor Epoxide	NS	NS	0.0072 U	0.0071 U	0.0069 U
Methoxychlor	NS	NS	0.0072 U	0.0071 U	0.0069 U
P,P'-DDD	0.0033	13	0.0072 U	0.0071 U	0.0069 U
P,P'-DDE	**0.0033**	8.9	0.0072 U	0.0071 U	0.0069 U
P,P'-DDT	**0.0033**	7.9	0.0072 U	0.0071 U	0.0022 J
Toxaphene	NS	NS	0.072 U	0.071 U	0.069 U

Table 8
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Per- and Polyfluoroalkyl Substances (PFAS)

			AKRF Sample ID	SB-08_0-2_20241213
			Laboratory Sample ID	460-317268-1
			Date Sampled	12/13/2024
			Dilution Factor	1
			Unit	ppb
Compound	**NYSDEC UUGV**	**NYSDEC RRGV**	CONC	Q
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	NS	NS	0.73	U
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	NS	NS	0.73	U
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	NS	NS	0.73	U
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	NS	NS	0.73	U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NS	NS	4.55	U
3-Perfluoropentylpropanoic acid (5:3 FTCA)	NS	NS	4.55	U
3-Perfluoropropylpropanoic acid (3:3 FTCA)	NS	NS	0.91	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	0.73	U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	NS	NS	0.73	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	NS	NS	0.73	U
N-ethylperfluorooctane sulfonamide (NEtFOSA)	NS	NS	0.18	U
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	NS	NS	1.82	U
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NS	NS	0.18	U
N-methylperfluorooctane sulfonamide (NMeFOSA)	NS	NS	0.18	U
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	NS	NS	1.82	U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NS	NS	0.18	U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NS	NS	0.36	U
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	NS	NS	0.36	UT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NS	NS	0.36	U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NS	NS	0.36	U
Perfluorobutanesulfonic acid (PFBS)	NS	NS	0.18	U
Perfluorobutanoic acid (PFBA)	NS	NS	0.73	U
Perfluorodecanesulfonic acid (PFDS)	NS	NS	0.18	U
Perfluorodecanoic acid (PFDA)	NS	NS	0.18	U
Perfluorododecanesulfonic acid (PFDoS)	NS	NS	0.18	U
Perfluorododecanoic acid (PFDoA)	NS	NS	0.18	U
Perfluoroheptanesulfonic acid (PFHpS)	NS	NS	0.18	U
Perfluoroheptanoic acid (PFHpA)	NS	NS	0.18	U
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	0.18	U
Perfluorohexanoic acid (PFHxA)	NS	NS	0.18	U
Perfluorononanesulfonic acid (PFNS)	NS	NS	0.18	U
Perfluorononanoic acid (PFNA)	NS	NS	0.11	J
Perfluorooctanesulfonamide (PFOSA)	NS	NS	0.18	U
Perfluorooctanesulfonic acid (PFOS)	**0.88**	44	**2.17**	**T**
Perfluorooctanoic acid (PFOA)	0.66	33	0.18	U
Perfluoropentanesulfonic acid (PFPeS)	NS	NS	0.18	U
Perfluoropentanoic acid (PFPeA)	NS	NS	0.36	U
Perfluorotetradecanoic acid (PFTeDA)	NS	NS	0.18	U
Perfluorotridecanoic acid (PFTrDA)	NS	NS	0.18	U
Perfluoroundecanoic acid (PFUnA)	NS	NS	0.18	U

Table 9
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of VOCs

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212	TB-01_20241211	TB-01_20241213
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3	460-317091-12	460-317271-4
Date Sampled		12/13/2024	12/12/2024	12/12/2024	12/11/2024	12/13/2024
Unit		µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	0.35 J	1 U	0.34 J	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	60	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U
Chloroform	7	2.9	3.9	1.7	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	3.2	4.7	1 U	1 U
Cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NS	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	0.48 J	1 U	0.47 J	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	1 U
M,P-Xylenes	5	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	NS	5 U	5 U	5 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 UT	5 U
Methylcyclohexane	NS	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U
N-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
N-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	1 U	1 U	1 U	1 U	1 U
Sec-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U
T-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	10	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene (PCE)	**5**	**60**	**270**	**310**	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1.5	2.5	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2 U	2 U	2 U	2 U	2 U

Table 10
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	TW-08_20241213	TW-09_20241212	TW-10_20241212
	Laboratory Sample ID	460-317271-1	460-317271-2	460-317271-3
	Date Sampled	12/13/2024	12/12/2024	12/12/2024
	Unit	µg/L	µg/L	µg/L
	Dilution Factor	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	0.1 J	0.2 U	0.13 J
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U
2,4-Dinitrophenol	10	40 U	40 U	40 U
2,4-Dinitrotoluene	5	10 U	10 U	10 U
2,6-Dinitrotoluene	5	2 U	2 U	2 U
2-Chloronaphthalene	10	10 U	10 U	10 U
2-Chlorophenol	NS	10 U	10 U	10 U
2-Methylnaphthalene	NS	10 U	10 U	10 U
2-Methylphenol (O-Cresol)	NS	10 U	10 U	10 U
2-Nitroaniline	5	10 U	10 U	10 U
2-Nitrophenol	NS	10 U	10 U	10 U
3- And 4- Methylphenol (Total)	NS	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	10 U
3-Nitroaniline	5	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	10 U	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 U	10 U
4-Chloroaniline	5	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U	10 U
4-Methylphenol (P-Cresol)	NS	10 U	10 U	10 U
4-Nitroaniline	5	10 U	10 U	10 U
4-Nitrophenol	NS	20 U	20 U	20 U
Acenaphthene	20	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U
Acetophenone	NS	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U
Atrazine	7.5	2 U	2 U	2 U
Benzaldehyde	NS	10 U	10 U	10 U
Benzo(a)Anthracene	0.002	1 U	1 U	1 U
Benzo(a)Pyrene	ND	1 U	1 U	1 U
Benzo(b)Fluoranthene	0.002	2 U	2 U	2 U
Benzo(g,h,i)Perylene	NS	10 U	10 U	10 U
Benzo(k)Fluoranthene	0.002	1 U	1 U	1 U
Benzyl Butyl Phthalate	50	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	10 U	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	1 U	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	2 U	2 U	2 U
Caprolactam	NS	18	21	16
Carbazole	NS	10 U	10 U	10 U
Chrysene	0.002	2 U	2 U	2 U
Dibenz(a,h)Anthracene	NS	1 U	1 U	1 U
Dibenzofuran	NS	10 U	10 U	10 U
Diethyl Phthalate	50	10 U	10 U	10 U
Dimethyl Phthalate	50	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	8.9 J	6.5 J	4.4 J
Di-N-Octylphthalate	50	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	1 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U
Hexachlorocyclopentadiene	5	10 U	10 U	10 U
Hexachloroethane	5	2 U	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	0.002	2 U	2 U	2 U
Isophorone	50	10 U	10 U	10 U
Naphthalene	10	2 U	2 U	2 U
Nitrobenzene	0.4	1 U	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	10 U	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	20 U
Phenanthrene	50	10 U	10 U	10 U
Phenol	1	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U

Table 11
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of Total Metals

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
Aluminum	NS	98,100	311,000	134,000
Antimony	3	0.69 J	2.2 J	0.71 J
Arsenic	**25**	23	**73.3**	**28.6**
Barium	**1,000**	**1,620**	**4,580**	**1,700**
Beryllium	**3**	**4.6**	**14**	**6.6**
Cadmium	5	1.9 J	4	2.9
Calcium	NS	532,000	585,000	780,000
Chromium, Total	**50**	**303**	**1,350**	**429**
Cobalt	NS	162	311	175
Copper	**200**	**319**	**1,000**	**419**
Iron	**300**	**185,000**	**667,000**	**292,000**
Lead	**25**	**88.4**	**707**	**113**
Magnesium	**35,000**	**164,000**	**370,000**	**295,000**
Manganese	**300**	**9,530**	**18,400**	**7,990**
Mercury	**0.7**	0.35	**1.1**	0.11 J
Nickel	**100**	**270**	**814**	**303**
Potassium	NS	34,900	111,000	40,300
Selenium	10	2.5	4 J	2.6
Silver	50	2 U	4 U	2 U
Sodium	**20,000**	**82,900**	**122,000**	**123,000**
Thallium	**0.5**	**0.61 J**	**1.6**	**0.75 J**
Vanadium	NS	304	913	427
Zinc	**2,000**	596	**2,040**	826

Table 12
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of Dissolved Metals

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
Aluminum	NS	40 U	29.7 J	40 U
Antimony	3	2 U	2 U	2 U
Arsenic	25	2 U	2 U	2 U
Barium	1,000	57.6	62.9	65.3
Beryllium	3	0.8 U	0.8 U	0.8 U
Cadmium	5	2 U	2 U	2 U
Calcium	NS	57,900	92,700	47,500
Chromium, Total	50	4 U	4 U	4 U
Cobalt	NS	2.4 J	4.8	1.5 J
Copper	200	4.6	2.6 J	5.1
Iron	300	120 U	69.7 J	120 U
Lead	25	1.2 U	1.2 U	1.2 U
Magnesium	35,000	22,700	33,900	11,000
Manganese	**300**	69	**412**	44.9
Mercury	0.7	0.2 U	0.2 U	0.2 U
Nickel	100	1.7 J	4.8	3.1 J
Potassium	NS	5,100	4,910	4,780
Selenium	10	1.6 J	2.2 J	1.3 J
Silver	50	2 U	2 U	2 U
Sodium	**20,000**	**87,500**	**134,000**	**97,700**
Thallium	0.5	0.8 U	0.8 U	0.8 U
Vanadium	NS	4 U	4 U	4 U
Zinc	2,000	16 U	16 U	11.3 J

Table 13
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of PCBs

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	0.4 U	0.4 U	0.4 U
PCB-1221 (Aroclor 1221)	NS	0.4 U	0.4 U	0.4 U
PCB-1232 (Aroclor 1232)	NS	0.4 U	0.4 U	0.4 U
PCB-1242 (Aroclor 1242)	NS	0.4 U	0.4 U	0.4 U
PCB-1248 (Aroclor 1248)	NS	0.4 U	0.4 U	0.4 U
PCB-1254 (Aroclor 1254)	NS	0.4 U	0.4 U	0.4 U
PCB-1260 (Aroclor 1260)	NS	0.4 U	0.4 U	0.4 U
PCB-1262 (Aroclor 1262)	NS	0.4 U	0.4 U	0.4 U
PCB-1268 (Aroclor 1268)	NS	0.4 U	0.4 U	0.4 U
Total PCBs	0.09	0.4 U	0.4 U	0.4 U

Table 14
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of Pesticides

AKRF Sample ID		TW-08_20241213	TW-09_20241212	TW-10_20241212
Laboratory Sample ID		460-317271-1	460-317271-2	460-317271-3
Date Sampled		12/13/2024	12/12/2024	12/12/2024
Unit		µg/L	µg/L	µg/L
Dilution Factor		1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q
Aldrin	ND	0.02 U	0.02 U	0.02 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02 U	0.02 U	0.02 U
Alpha Endosulfan	NS	0.02 U	0.02 U	0.02 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U
Beta Endosulfan	NS	0.02 U	0.02 U	0.02 U
cis-Chlordane	NS	0.02 U	0.02 U	0.02 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.02 U	0.02 U	0.02 U
Endosulfan Sulfate	NS	0.02 U	0.02 U	0.02 U
Endosulfans ABS	NS	0 U	0 U	0 U
Endrin	ND	0.02 U	0.02 U	0.02 U
Endrin Aldehyde	5	0.02 U	0.02 U	0.02 U
Endrin Ketone	5	0.02 U	0.02 U	0.02 U
Gamma Bhc (Lindane)	0.05	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U
Heptachlor Epoxide	0.03	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.02 U	0.02 U	0.02 U
P,P'-DDD	0.3	0.02 U	0.02 U	0.02 U
P,P'-DDE	0.2	0.02 U	0.02 U	0.02 U
P,P'-DDT	0.2	0.02 U	0.02 U	0.02 U
Toxaphene	0.06	0.5 U	0.5 U	0.5 U

Table 15
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Soil Vapor Analytical Results of VOCs

AKRF Sample ID	SV-06_20241213	SV-07_20241213	SV-11_20241213
Laboratory Sample ID	200-76306-1	200-76306-2	200-76306-3
Date Sampled	12/13/2024	12/13/2024	12/13/2024
Unit	µg/m^3	µg/m^3	µg/m^3
Dilution Factor	10	10	10
Compound	CONC Q	CONC Q	CONC Q
1,3-Butadiene	13	5.6	4.4 U
2,2,4-Trimethylpentane	2.3 J	3.5 J	9.3 U
Acetone	54 J	78 J	120 U
Benzene	5 J	3.7 J	6.4 U
Butane	45	66	12 U
Carbon Disulfide	21	12 J	16 U
Chloroform	9.8 U	9.8 U	3.1 J
Cis-1,2-Dichloroethylene	2 U	2 U	7.9
Cyclohexane	5.9 J	13	6.9 U
Methyl Ethyl Ketone (2-Butanone)	14 J	18	15 U
N-Heptane	3.6 J	9.4	8.2 U
N-Hexane	11 J	25	18 U
Styrene	8.5 U	8.5 U	3.1 J
Tetrachloroethylene (PCE)	14 U	1.4 J	25
Toluene	5.5 J	2.6 J	7.5 U
Trichloroethylene (TCE)	2 U	2 U	4.4

Tables 3-15
31-07 31st St
Queens, NY
Subsurface (Phase II) Investigation
Notes

DEFINITIONS

J	:	The concentration given is an estimated value.
ND	:	The standard is a non-detectable concentration by the approved analytical method.
NS	:	No standard.
P	:	Indicates a pesticide/aroclor target analyte had a percent difference greater than 25% between the two gc columns. The lower of the two results is reported.
T	:	Indicates that a quality control parameter has exceeded laboratory limits.
U	:	The analyte was not detected at the indicated concentration.
mg/kg	:	milligrams per kilogram
ppb	:	parts per billion
µg/L	:	micrograms per liter
µg/m^3	:	micrograms per cubic meter of air

STANDARDS

Part 375 Soil Cleanup Objectives	:	Soil Cleanup Objectives listed in New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations [6 New York Codes, Rules and Regulations (NYCRR) Part 375].

Note: Endosulfans ABS represents the detected sum of Endosulfan I, Endosulfan II, and Endosulfan Sulfate.

Exceedances of Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray shading.

NYSDEC Class GA AWQSGVs	:	New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

APPENDIX A
PREVIOUS REPORTS

APPENDIX B
GEOPHYSICAL REPORT

Coastal Environmental Solutions, Inc.

GEOPHYSICAL INVESTIGATION REPORT

31-07 31st Street, Astoria, NY
Date of Investigation: 12/11/2024

Prepared for:

AKRF, Inc.
440 Park Avenue South
New York, New York 10016

Prepared By:

Dennis Berthold
Director of Geophysical Operations
Coastal Environmental Solutions, Inc.
PO Box 342
Medford, New York 11763

1.0 INTRODUCTION

On 12/11/2024, Coastal Environmental Solutions, Inc (Coastal) personnel performed a limited Geophysical Investigation at the site located at 31-07 31st Street, Astoria, NY. The areas of interest include multiple locations across the asphalt parking lot as indicated by the client. Surface conditions consisted of asphalt.

2.0 SCOPE OF WORK

1. Locate and mark detectable underground utilities and other subsurface anomalies in close proximity to client proposed soil boring locations.

3.0 EQUIPMENT

ImpulseRadar PinPointR Ultra-Wide Band (UWB) Penetrating Radar System

Ground Penetrating RADAR (GPR) is a non-destructive geophysical method that produces a continuous cross-sectional profile of subsurface features in real time. GPR operates by transmitting both high and low frequency electromagnetic wave pulses down into the ground through a transmitter in the antenna. The transmitted electromagnetic waves reflect off materials with contrasting dielectric properties from surrounding medium such as underground storage tanks, utilities, distinct contacts between different earth materials, and other various subsurface objects. The antenna receiver collects the reflected electromagnetic waves which are then interpreted by the operator.

The ImpulseRadar PinPointR UWB GPR utilizes a dual band 400/800 MHz HS antenna mounted to a stroller frame which rolls over the surface. The total depth of penetration achieved with the antenna can be up to 10 feet but widely varies based on site-specific subsurface conditions. Conductive materials in the soil attenuate the GPR signal causing a decrease in effective depth of penetration and clarity.

Vivax-Metrotech vLoc3-Pro Receiver/Transmitter

The vLoc3-Pro Receiver is a hand-operated antenna capable of detecting electromagnetic (EM) fields emitted from a source. The EM antenna can detect pipes and cables in the ground at depths of up to 20 feet using active or passive tracing techniques. Passive tracing is the act of locating an underground utility through the detection of electrical or radio signals travelling along conductive utilities. Active tracing is used in conjunction with the Transmitter that is directly connected to the target utility or to a conductive rodder within a non-conductive line. A signal is sent through the utility at a specific frequency that can be detected by the Receiver. The detectability of a target utility depends on many factors including access to the target utility, grounding, depth of utility, conductivity, and other site-specific factors.

TW-6 Pipe and Cable Locator

The TW-6 Pipe and Cable locator is a handheld magnetometer which utilizes a transmitter-receiver pair attached to opposite ends of a handle and carried approximately 1-2ft from the surface. The magnetometer induces an electromagnetic (EM) field into the ground that is generated by the transmitter. Once the induced EM field passes through a buried metallic object, it generates a

secondary EM field which is detected by the receiver, generating an audible tone. Based on the calibration of the magnetometer, the audible tone reflects the strongest response as the highest pitched sound, trailing off on all sides of the peak. This piece of technology can be used to detect subsurface features such as metallic USTs, large diameter conductive pipes, and buried manholes, especially in areas in which traditional GPR methods cannot be utilized, such as overgrown or uneven surfaces.

4.0 METHODOLOGY

1. A subsurface investigation was performed in close proximity to the client proposed soil boring locations. Active and passive detection methods were utilized with the VLoc3-Pro receiver/transmitter. Coastal personnel direct connected to all accessible and traceable pipes, conduits, valve covers, and any other surface feature throughout the site. A passive scan was performed throughout the site to detect any potential underground utilities that could not be located with active scan.
2. The TW-6 was utilized (if applicable) to sweep any accessible areas for suspected UST locations in 3-to-5-foot spacings for readings that may represent a buried metallic anomaly. Upon detection of a reading, the approximate size and shape of the anomalous area was marked on the surface to be investigated further with GPR.
3. GPR was utilized to further characterize the approximate dimensions, depth, and shape of the anomalies located with the TW-6. The remainder of the areas around suspected detections were scanned with GPR in 3-to-5-foot spacing to locate any anomalous features not previously detected such as non-conductive piping and former excavations.
4. All findings were marked on the surface utilizing the American Public Works Association (APWA) recommended color code, seen below:

WHITE	Proposed Excavation
PINK	Temporary Survey Markings (Approximate UST Locations, Soil Boring Locations)
RED	Electric Power Lines, Cables, Conduit and Lighting Cables
YELLOW	Gas, Oil, Steam, Petroleum or Gaseous Materials
ORANGE	Communication, Alarm or Signal Lines, Cables or Conduit
BLUE	Water (Domestic and Fire Lines)
PURPLE	Irrigation, Slurry Lines, Reclaimed Water
GREEN	Sewers and Drain Lines

5.0 SUMMARY OF FINDINGS

Subsurface Investigation

Coastal personnel conducted a subsurface investigation on all accessible locations within the areas of concern. The site was first investigated with AKRF and Coastal personnel to identify the limit of the scope of work and identify any surface features identifying utilities. Upon visual inspection of the site, a large portion of the center of the parking lot was occupied by materials and equipment staged by another contractor working in the adjacent roadway. Coastal investigated the site for any surface and subsurface features related to utilities and after a thorough search with GPR and EM antennas, multiple features were detected. Multiple shallow electrical lines were located and

marked leading to the site lighting and parking meters within the lot. Also identified was a series of interconnected storm drains and a partially marked unknown line. Coastal proceeded to clear the proposed boring locations prior to drilling activities.

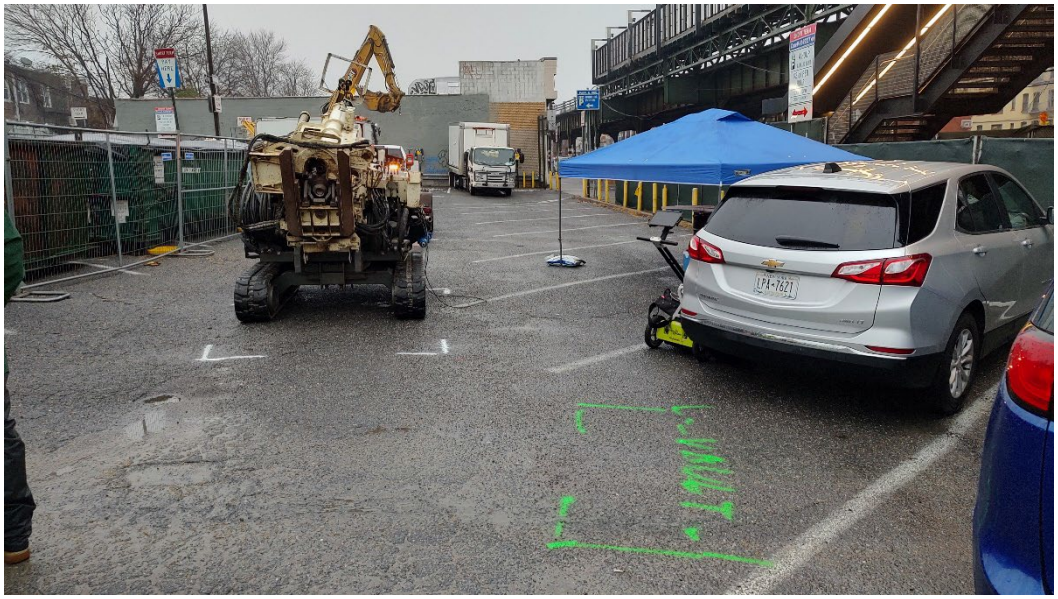
Limitations

The effective depth of GPR penetration was limited to 4.5 feet beneath the asphalt surface. The limiting factor was likely due to soil conductivity attenuating the GPR signal. The GPR and TW-6 is unable to be utilized within close proximity to parked vehicles, metallic fences and exterior walls. The fenced off area in the center of the lot as well as the areas beneath the staged equipment were not able to be fully investigated with GPR, which may have blocked access to additional significant findings.

Disclaimer

The subsurface investigation was performed by Coastal after considering the limits of the scope of work and the time constraint for the investigation. The investigation that is described in this report was undertaken in accordance with current accepted standards and practices of the geophysical survey industry. The results and interpretations that are presented are based on professional judgment and are as accurate as can reasonably be achieved. However, no geophysical equipment can accurately depict all subsurface features due to the geology and environmental conditions of the subsurface. Any intrusive work in proximity to identified anomalies should be carefully considered and cross-referenced with all available site-specific documentation. Coastal is not liable for the use, interpretation, or application of the data and information in this report.

PHOTOS & GPR SCREENSHOTS



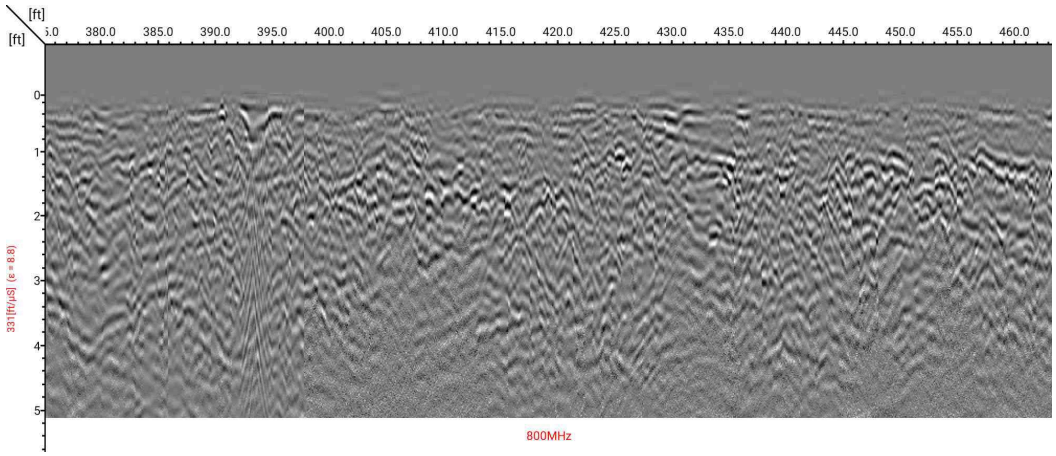
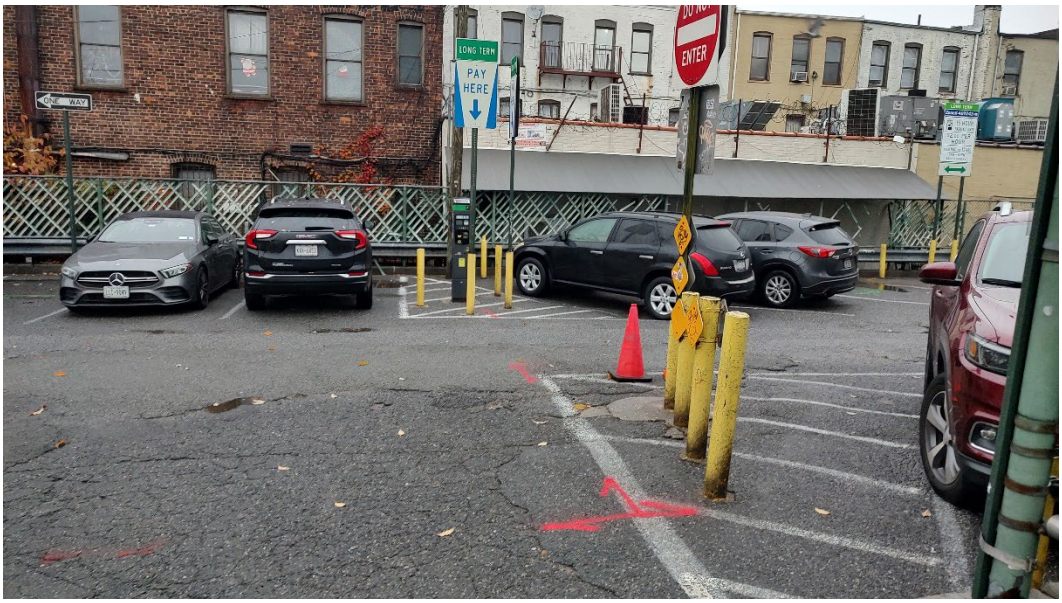


Photo 1 and GPR Screenshot 1 – Photo of the site with a storm vault and related lines leading out of it. Also visible are the fences and staged vehicles by another contractor. All proposed boring locations were cleared and marked as white boxes as seen above. The GPR screenshot shows a detection at approximately 3 feet deep which was determined to be the storm drain lines.



Photos 2 & 3 – Location of the northeastern side of the parking lot containing the storm drain line marked in green and the partial markings of the unknown line marked in pink.





Photos 4 & 5 – Location of the center of the parking lot with the detected electrical lines leading to the parking meters and site lighting, marked in red.



APPENDIX C
SOIL BORING AND TEMPORARY WELL CONSTRUCTION LOGS

Soil Boring Log

31-07 31st St, Queens, NY
AKRF Project Number: 240854

Soil Boring ID: **SB-04**

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	56 - 61 °F, Rainy
Logged By:	J.Peters, AKRF

Drilling
Start Time: 10:50 **Finish Time:** 11:00
Date: 12/11/2024

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	32	Top 2": ASPHALT.	ND	Dry	ND	ND	SB-04_0-2_20241211
2		Next 30": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3							SB-04_2-4_20241211
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-11
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 07:40	Finish Time: 07:55
	Driller:	Coastal Environmental Solutions		
	Weather:	~35 °F, Sunny	Date: 12/12/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	45	Top 3": ASPHALT.	ND	Dry	ND	ND	SB-11_0-2_20241212
2		Next 32": Brown SAND, little Brick, Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3		Bottom 10": Brown SAND, little fine Gravel	ND	Dry	ND	ND	SB-11_2-4_20241212
4							
5							
6	43	Brown SAND, little fine Gravel	ND	Dry	ND	ND	SB-11_4-6_20241212
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 10 feet below grade.

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-12
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 09:55	Finish Time: 10:10
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	40	Top 3": ASPHALT.	ND	Dry	ND	ND	SB-12_0-2_20241211
2		Bottom 37": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3							
4							
5							
6	60	Top 50": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
7		Bottom 10": CONCRETE (Fill).	ND	Dry	ND	ND	
8							
9							SB-12_8-10_20241211
10							
11	42	Top 19": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	SB-12_10-12_20241211
12		Bottom 23": Light Brown SAND, trace fine Gravel (Native).	ND	Dry	ND	ND	
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-13
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 08:45	Finish Time: 09:10
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	35	Top 1": ASPHALT.	ND	Dry	ND	ND	SB-13_0-2_20241211
2		Next 5": Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3		Bottom 29": Brown SANDY SILT, trace fine Gravel (Fill).	ND	Dry	ND	ND	SB-13_2-4_20241211
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-14
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 09:10	Finish Time: 09:35
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	33	Top 2": ASPHALT.	ND	Dry	ND	ND	SB-14_0-2_20241211
2		Next 31": Brown SAND, little Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3							SB-14_2-4_20241211
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Soil Boring Log	31-07 31st St, Queens, NY AKRF Project Number: 240854		Soil Boring ID:	SB-15
akrf 440 Park Avenue South, 7th Floor New York, NY 10016	Drilling Method:	Geoprobe 7822DT	Drilling	
	Sampling Method:	5' Macrocore	Start Time: 09:15	Finish Time: 09:25
	Driller:	Coastal Environmental Solutions		
	Weather:	56 - 61 °F, Rainy	Date: 12/11/2024	
	Logged By:	J.Peters, AKRF		

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	38	Top 4": ASPHALT.	ND	Dry	ND	ND	SB-15_0-2_20241211
2		Next 30": Brown to Dark Brown SAND, some Gravel, trace Silt (Fill).	ND	Dry	ND	ND	
3		Bottom 4": CONCRETE (Fill).	ND	Dry	ND	ND	SB-15_2-4_20241211
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.
Groundwater not encountered during soil boring installation.
End of soil boring at 5 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	TW-08	Soil Boring ID:	SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	30 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:15 | Finish Time: 09:30

Date: 12/13/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1 2 3 4 5		1" PVC well casing: 0 to 28' below surface grade.	38	Top 2": ASPHALT. Next 36": Brown SAND, some Gravel, trace Silt (Fill).	ND ND	Dry Dry	ND ND	ND ND	SB-08_0-2_20241213 SB-08_2-4_20241213
6 7 8 9 10			29	Top 20": Brown SAND, little Gravel, trace Silt (Fill). Bottom 9": Brown SAND, trace Gravel.	ND ND	Dry Dry	ND ND	ND ND	SB-08_9-11_20241213
11 12 13 14 15			14	Brown SAND, trace Gravel.	ND	Dry	ND	ND	

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 31.4 feet below grade in TW-08.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series. Sample SB-08_0-2_20241213 was analyzed for PFAS by EPA Method 1633.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	TW-08	Soil Boring ID:	SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	30 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:15 | Finish Time: 09:30

Date: 12/13/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		1" PVC well casing: 0 to 28' below surface grade.	27	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
17									
18									
19									
20									
21			24	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
22									
23									
24									
25									
26			37	Brown SAND, trace Gravel.	ND	Moist @ 28'	ND	ND	
27									
28		1" PVC well screen: 28' to 38' below grade.							
29									
30		Sandpack: 26' to 38' below grade.							

Notes: ▼ Groundwater Depth Indicator

Groundwater measured at 31.4 feet below grade in TW-08.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series. Sample SB-08_0-2_20241213 was analyzed for PFAS by EPA Method 1633.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

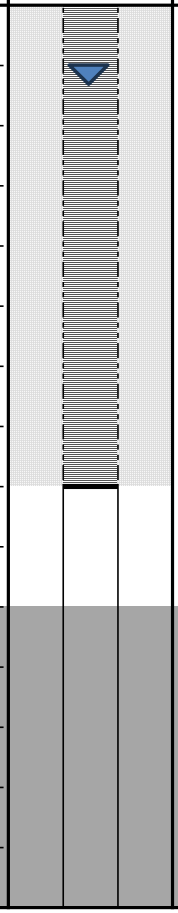
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	TW-08	Soil Boring ID:	SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	30 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling
Start Time: 08:15 | Finish Time: 09:30
Date: 12/13/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31–40		Sandpack: 26' to 38' below grade. 1" PVC well screen: 28' to 38' below grade.	5	Brown SAND, trace Gravel.	ND	Moist	ND	ND	
			40	Brown SAND, trace Gravel.	ND	Wet @ 35'	ND	ND	
41–45									

Notes:
Groundwater Depth Indicator
Groundwater measured at 31.4 feet below grade in TW-08.
Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series. Sample SB-08_0-2_20241213 was analyzed for PFAS by EPA Method 1633.
Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.
End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	TW-09	Soil Boring ID:	SB-09

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 10:40 | Finish Time: 11:15

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		1" PVC well casing: 0 to 30' below surface grade.	32	Top 2": ASPHALT. Bottom 30": Brown SAND, little Gravel, trace Silt (Fill).	ND ND	Dry Dry	ND ND	ND ND	SB-09_0-2_20241212
2									
3									
4									
5									
6			37	Brown SAND, little Gravel, trace Silt (Fill).	ND	Dry	ND	ND	SB-09_8-10_20241212
7									
8									
9									
10									
11			32	Brown SAND, trace Gravel.	ND	Dry	ND	ND	SB-09_10-12_20241212
12									
13									
14									
15									

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 32.67 feet below grade in TW-09.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 33 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	TW-09	Soil Boring ID:	SB-09

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 10:40 | **Finish Time: 11:15**

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		1" PVC well casing: 0 to 30' below surface grade.	33	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
17									
18									
19									
20									
21			32	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
22									
23									
24									
25									
26			37	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
27									
28									
29		Sandpack: 28' to 40' below grade.							
30									

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 32.67 feet below grade in TW-09.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 33 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

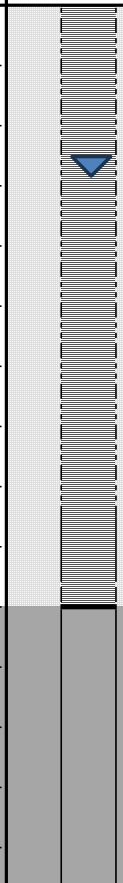
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	TW-09	Soil Boring ID:	SB-09

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling
Start Time: 10:40 | Finish Time: 11:15
Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31		1" PVC well screen: 30' to 40' below grade. Sandpack: 28' to 40' below grade.	45	Brown SAND.	ND	Moist @ 31' Wet @ 33'	ND	ND	
32									
33									
34									
35									
36			40	Brown SAND.	ND	Wet	ND	ND	
37									
38									
39									
40									
41									
42									
43									
44									
45									

Notes: ▼ **Groundwater Depth Indicator**

Groundwater measured at 32.67 feet below grade in TW-09.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 33 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	TW-10	Soil Boring ID:	SB-10

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	~35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:10 | Finish Time: 09:00

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1 2 3 4 5		1" PVC well casing: 0 to 30' below surface grade.	22	Top 4": ASPHALT. Bottom 18": Brown SAND, little Gravel, trace Silt (Fill).	ND ND	Dry Dry	ND ND	ND ND	SB-10_0-2_20241212 SB-10_2-4_20241212
6 7 8 9 10			30	Top 22": Brown SAND, little Gravel, trace Silt (Fill). Bottom 8": Brown SAND, trace Gravel.	ND ND	Dry Dry	ND ND	ND ND	SB-10_8-10_20241212
11 12 13 14 15			30	Brown SAND, trace Gravel.	ND	Dry	ND	ND	

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 35.06 feet below grade in TW-10.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	TW-10	Soil Boring ID:	SB-10

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	~35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:10 | **Finish Time: 09:00**

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		1" PVC well casing: 0 to 30' below surface grade.	19	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
17									
18									
19									
20									
21			35	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
22									
23									
24									
25									
26			30	Brown SAND, trace Gravel.	ND	Dry	ND	ND	
27									
28									
29		Sandpack: 28' to 40' below grade.							
30									

Notes: ▽ **Groundwater Depth Indicator**

Groundwater measured at 35.06 feet below grade in TW-10.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

TEMPORARY SOIL BORING AND WELL INSTALLATION LOG	31-07 31st St, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	TW-10	Soil Boring ID:	SB-10

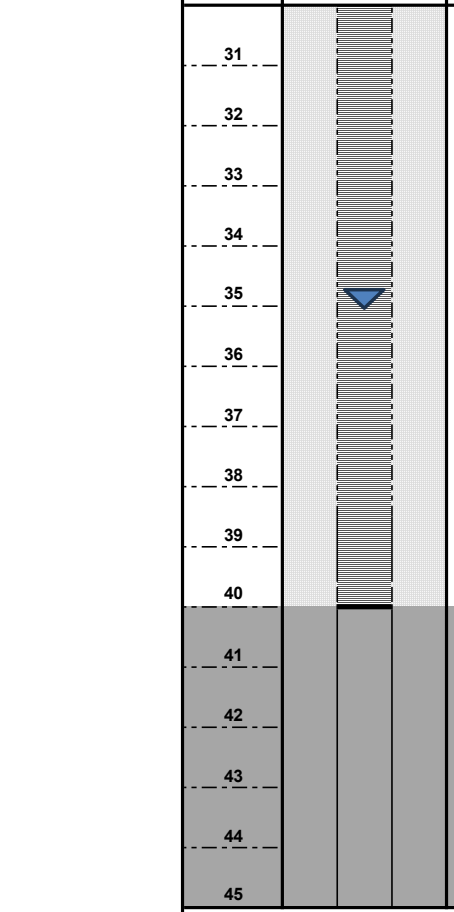
akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe 7822DT
Sampling Method:	5' Macrocore
Driller:	Coastal Environmental Solutions
Weather:	~35 °F, Sunny
Logged by:	J.Peters, AKRF

Drilling

Start Time: 08:10 | Finish Time: 09:00

Date: 12/12/2024

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31 32 33 34 35 36 37 38 39 40		1" PVC well screen: 30' to 40' below grade. Sandpack: 28' to 40' below grade.	34	Brown SAND, trace Gravel.	ND	Moist @ 34'	ND	ND	
			53	Brown SAND, trace Gravel.	ND	Wet @ 35'	ND	ND	
41 42 43 44 45									

Notes: ▼ Groundwater Depth Indicator

Groundwater measured at 35.06 feet below grade in TW-10.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Pesticides by EPA Method 8081, and TAL Metals by EPA Method 6000/7000 series.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

APPENDIX D
GROUNDWATER SAMPLING LOGS

APPENDIX E
SOIL VAPOR SAMPLING LOGS

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Soil Vapor Sample Log

Project Name:	Ikos Senior Living		**Point Installed By:**	Coastal Environmental Solutions	
Project Location:	31-07 31st St, Queens, NY		**Installation Method:**	Geoprobe 7822DT	
Project Number:	240854		**Sampled By:**	S. Schmid, J. Peters	
Client:	Ikos Senior Living LLC		**Date:**	12/13/2024	
			Weather:	30°F, Sunny	
Sample Setup					
Vapor Point Depth:	24	Inches	**Purge Time:**	9.5 Minutes	
Purging Pump:	GilAir		**Purged Vapor PID:**	0.4	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0	%
Sample Identification					
Soil Vapor Point ID:	SV-06		**SUMMA® Canister ID:**	4658	
Flow Controller ID:	3943		**Soil Vapor Sample ID:**	SV-06_20241213	

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:21	-29	ND	None
Time Halfway:	10:21	-19	ND	None
Time Stopped:	11:21	-5	ND	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample SV-06_20241213 collected in a 1-L SUMMA® canister using a 2-hour flow controller.			

akrf
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New York, NY 10016

Soil Vapor Sample Log

Project Name:	Ikos Senior Living		**Point Installed By:**	Coastal Environmental Solutions	
Project Location:	31-07 31st St, Queens, NY		**Installation Method:**	Geoprobe 7822DT	
Project Number:	240854		**Sampled By:**	S. Schmid, J. Peters	
Client:	Ikos Senior Living LLC		**Date:**	12/13/2024	
			Weather:	30°F, Sunny	
Sample Setup					
Vapor Point Depth:	24	Inches	**Purge Time:**	9.5 Minutes	
Purging Pump:	GilAir		**Purged Vapor PID:**	0.9	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0	%
Sample Identification					
Soil Vapor Point ID:	SV-07		**SUMMA® Canister ID:**	4968	
Flow Controller ID:	6549		**Soil Vapor Sample ID:**	SV-07_20241213	

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:27	-28	ND	None
Time Halfway:	10:27	-20	ND	None
Time Stopped:	11:27	-6	ND	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample SV-07_20241213 collected in a 1-L SUMMA® canister using a 2-hour flow controller.			

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Soil Vapor Sample Log

Project Name:	Ikos Senior Living	**Point Installed By:**	Coastal Environmental Solutions
Project Location:	31-07 31st St, Queens, NY	**Installation Method:**	Geoprobe 7822DT
Project Number:	240854	**Sampled By:**	S. Schmid, J. Peters
Client:	Ikos Senior Living LLC	**Date:**	12/13/2024
		Weather:	30°F, Sunny

Sample Setup

Vapor Point Depth:	72	Inches	**Purge Time:**	10 Minutes	
Purging Pump:	GilAir		**Purged Vapor PID:**	1.8	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0	%

Sample Identification

Soil Vapor Point ID:	SV-11	**SUMMA® Canister ID:**	6805
Flow Controller ID:	6554	**Soil Vapor Sample ID:**	SV-11_20241213

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:19	-28	ND	None
Time Halfway:	10:20	-15	ND	None
Time Stopped:	11:19	-5	ND	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample SV-11_20241213 collected in a 1-L SUMMA® canister using a 2-hour flow controller.			

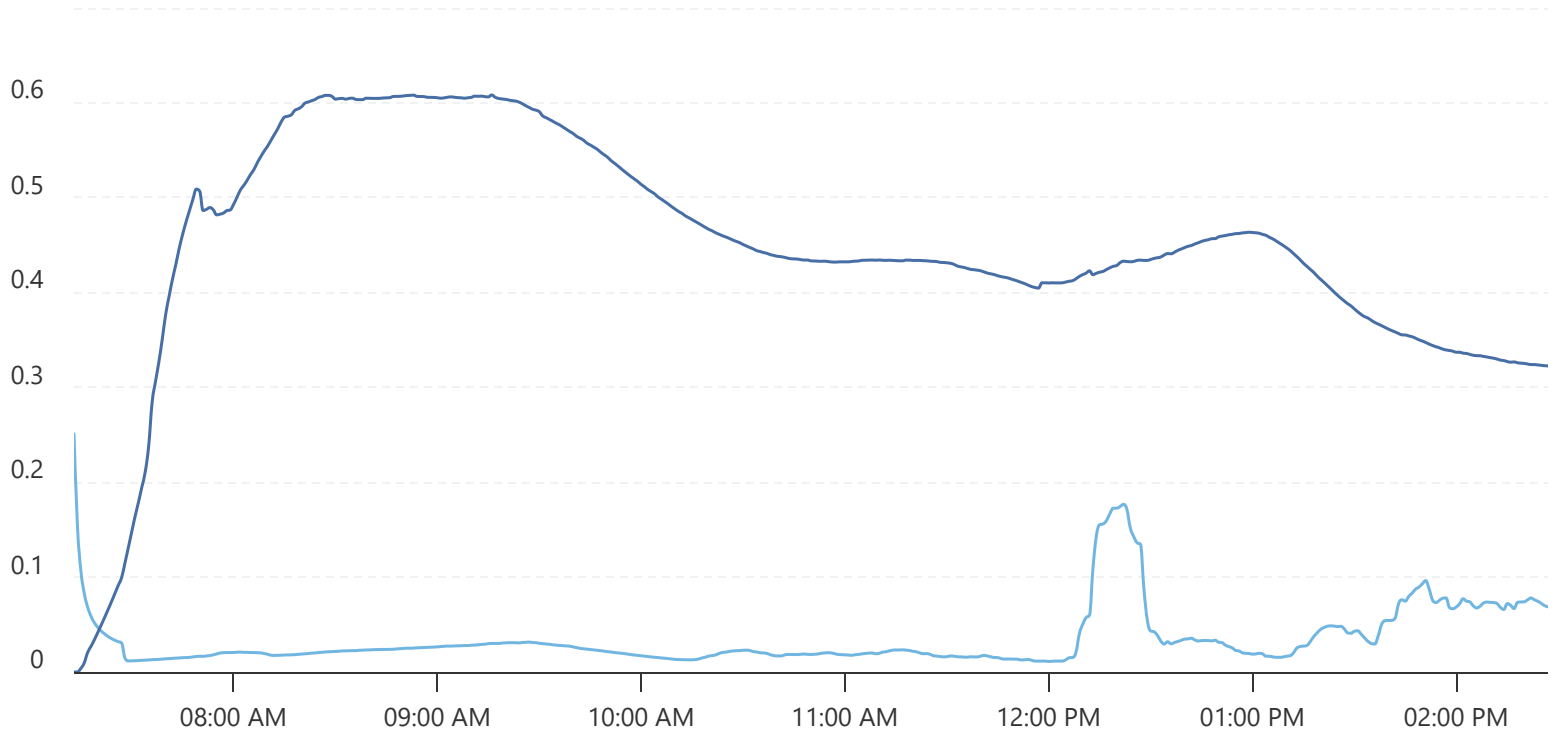
APPENDIX C
AIR MONITORING LOGS

31st Street Downwind

2B517303

04/27/2026 02:27 - 04/27/2026 14:27

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3 AVG 15 minutes

MIN **0.011** AVG **0.035** MAX **0.251**

VOC, ppm AVG 15 minutes

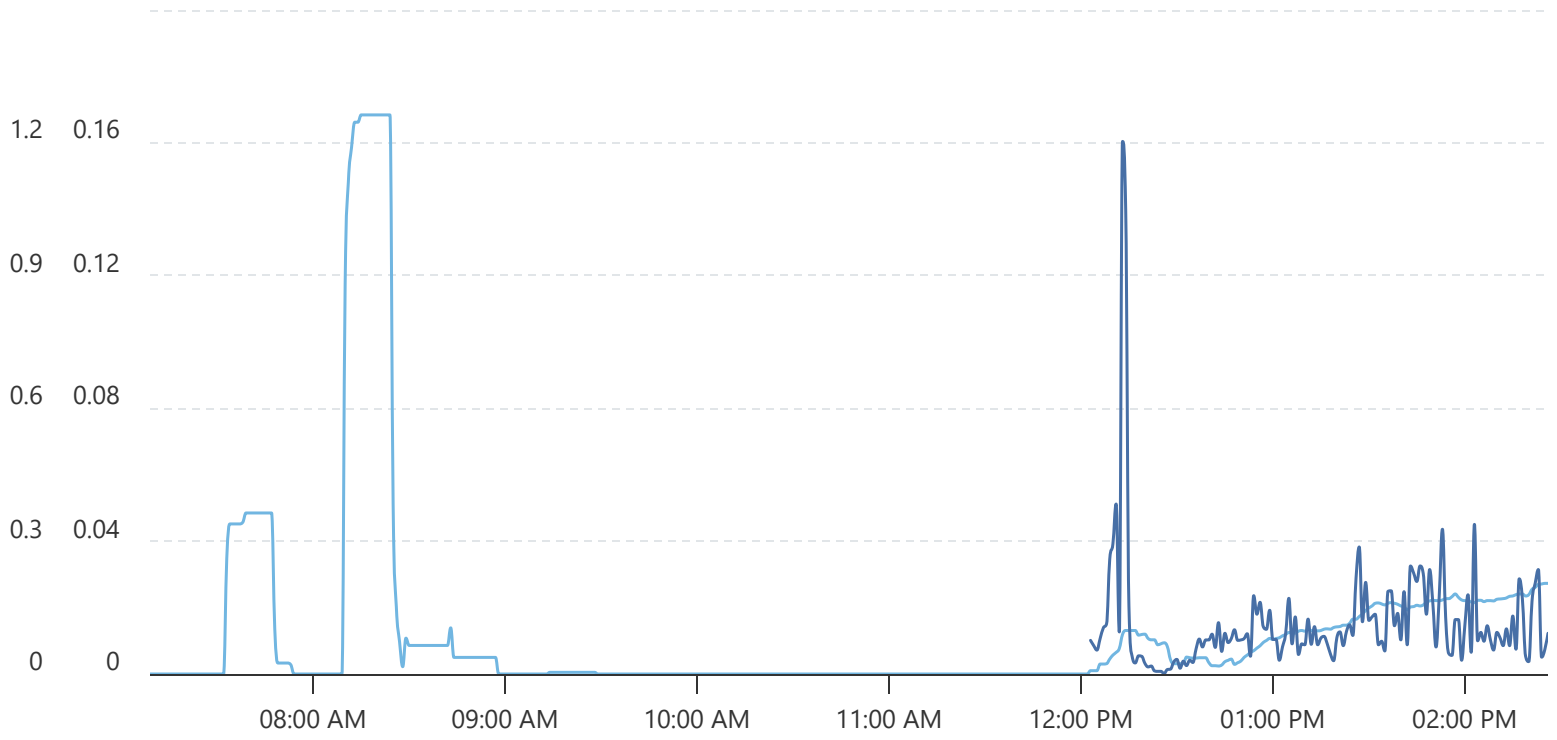
MIN **0** AVG **0.448** MAX **0.608**

31st Street Upwind

2B662762

04/27/2026 02:26 - 04/27/2026 14:26

(GMT-05:00) Eastern Time (US & Canada)



VOC, ppm AVG 15 minutes

MIN **0** AVG **0.013** MAX **0.168**

Mass Conc. Total, mg/m^3

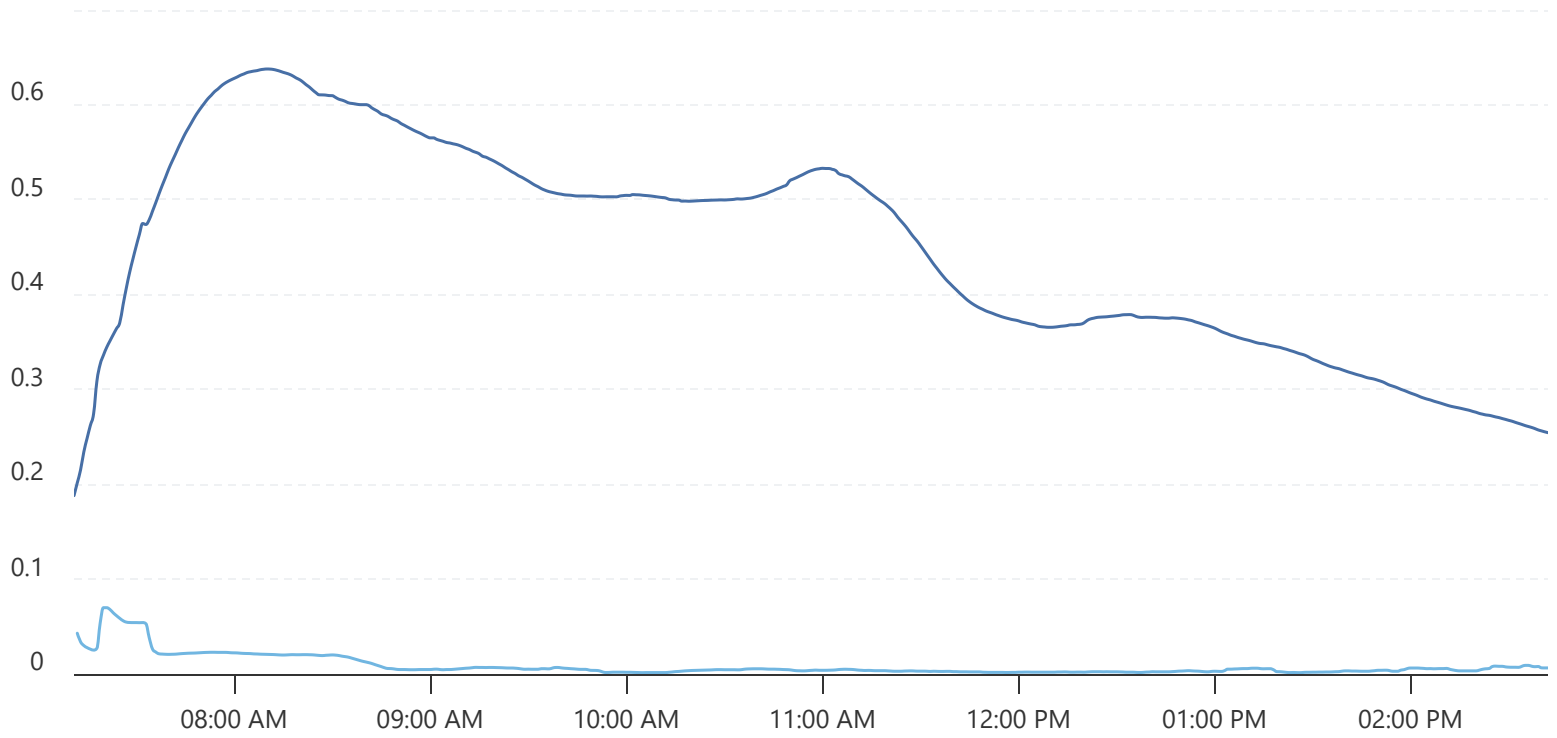
MIN **0.001** AVG **0.116** MAX **1.203**

31st Street Downwind

2B517303

04/28/2026 04:20 - 04/28/2026 16:20

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3 AVG 15 minutes

MIN **0.001** AVG **0.009** MAX **0.07**

VOC, ppm AVG 15 minutes

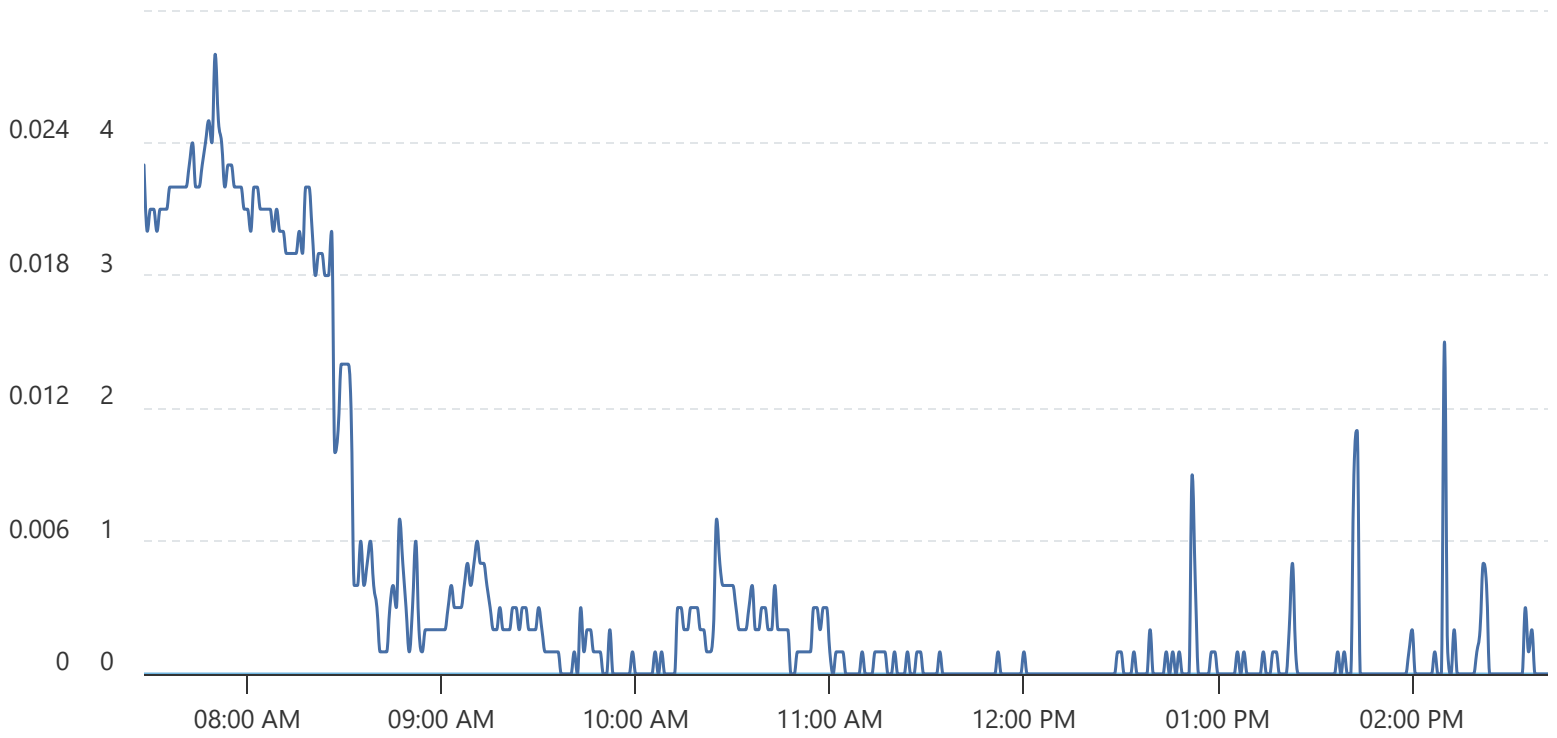
MIN **0.188** AVG **0.448** MAX **0.638**

31st Street Upwind

2B662762

04/28/2026 04:19 - 04/28/2026 16:19

(GMT-05:00) Eastern Time (US & Canada)



VOC, ppm AVG 15 minutes

MIN **0** AVG **0** MAX **0**

Mass Conc. Total, mg/m^3

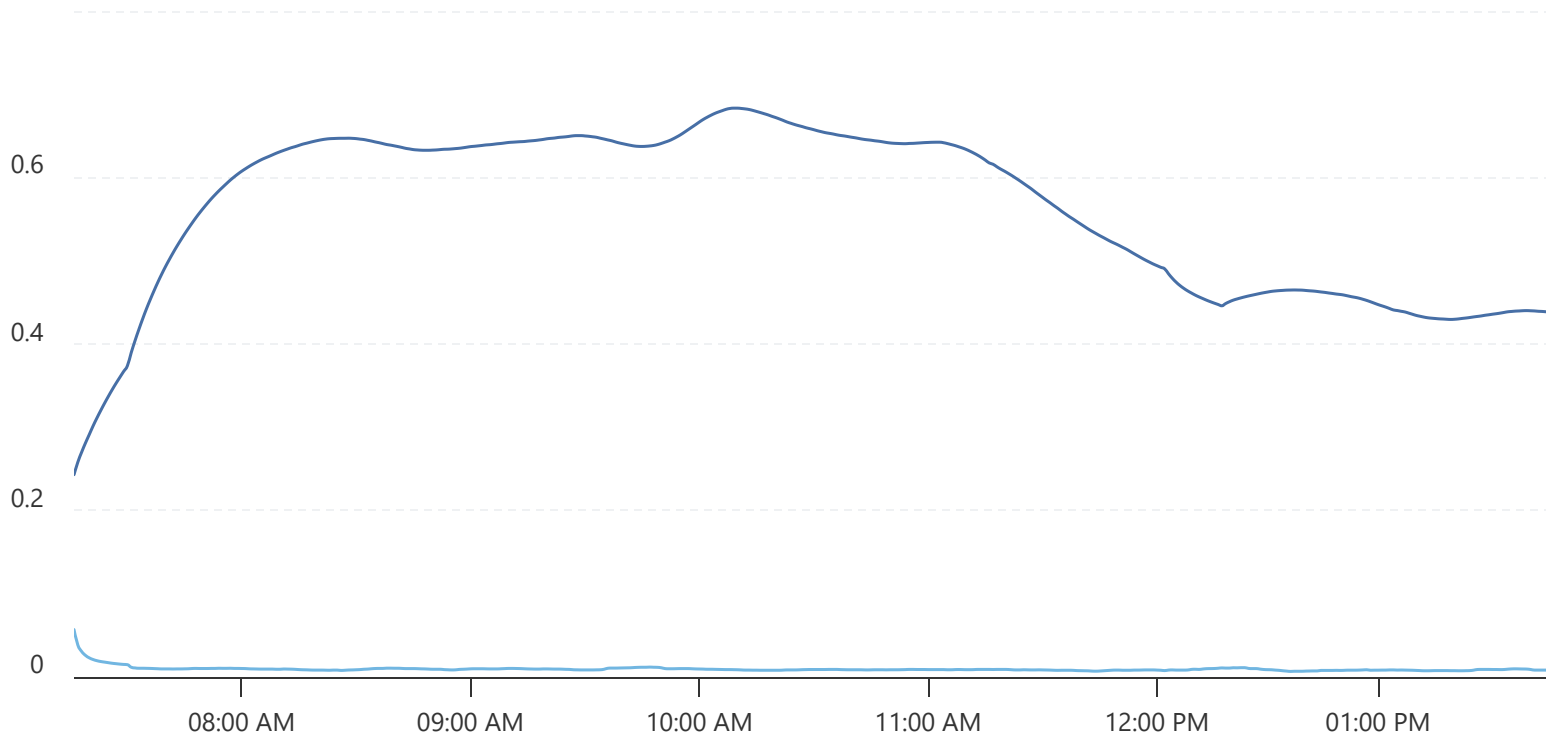
MIN **0** AVG **0.004** MAX **0.028**

31st Street Downwind

2B517303

04/29/2026 03:26 - 04/29/2026 15:26

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3 AVG 15 minutes

MIN **0.007** AVG **0.01** MAX **0.057**

VOC, ppm AVG 15 minutes

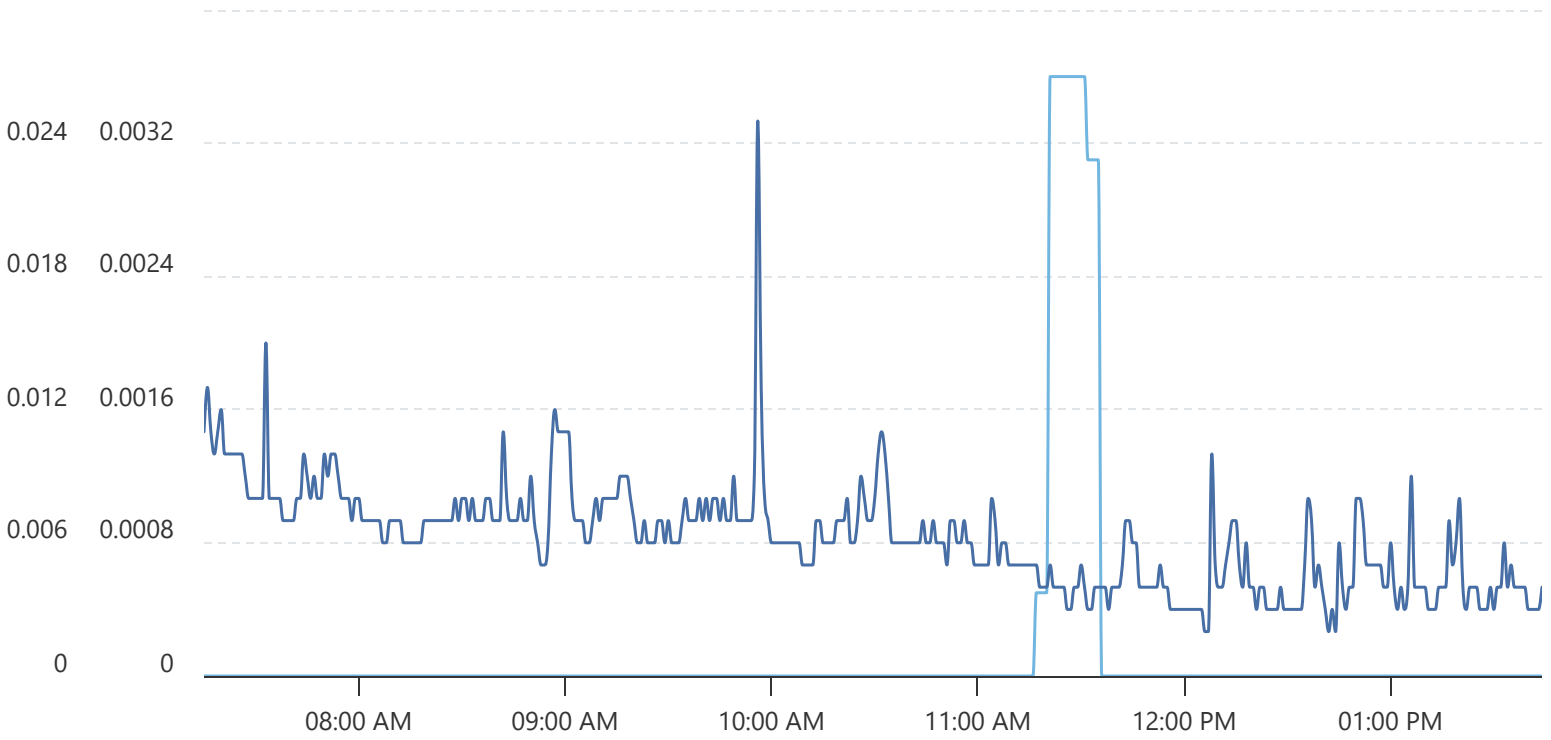
MIN **0.243** AVG **0.561** MAX **0.683**

31st Street Upwind

2B662762

04/29/2026 03:26 - 04/29/2026 15:26

(GMT-05:00) Eastern Time (US & Canada)



VOC, ppm AVG 15 minutes

MIN **0** AVG **0** MAX **0.004**

Mass Conc. Total, mg/m^3

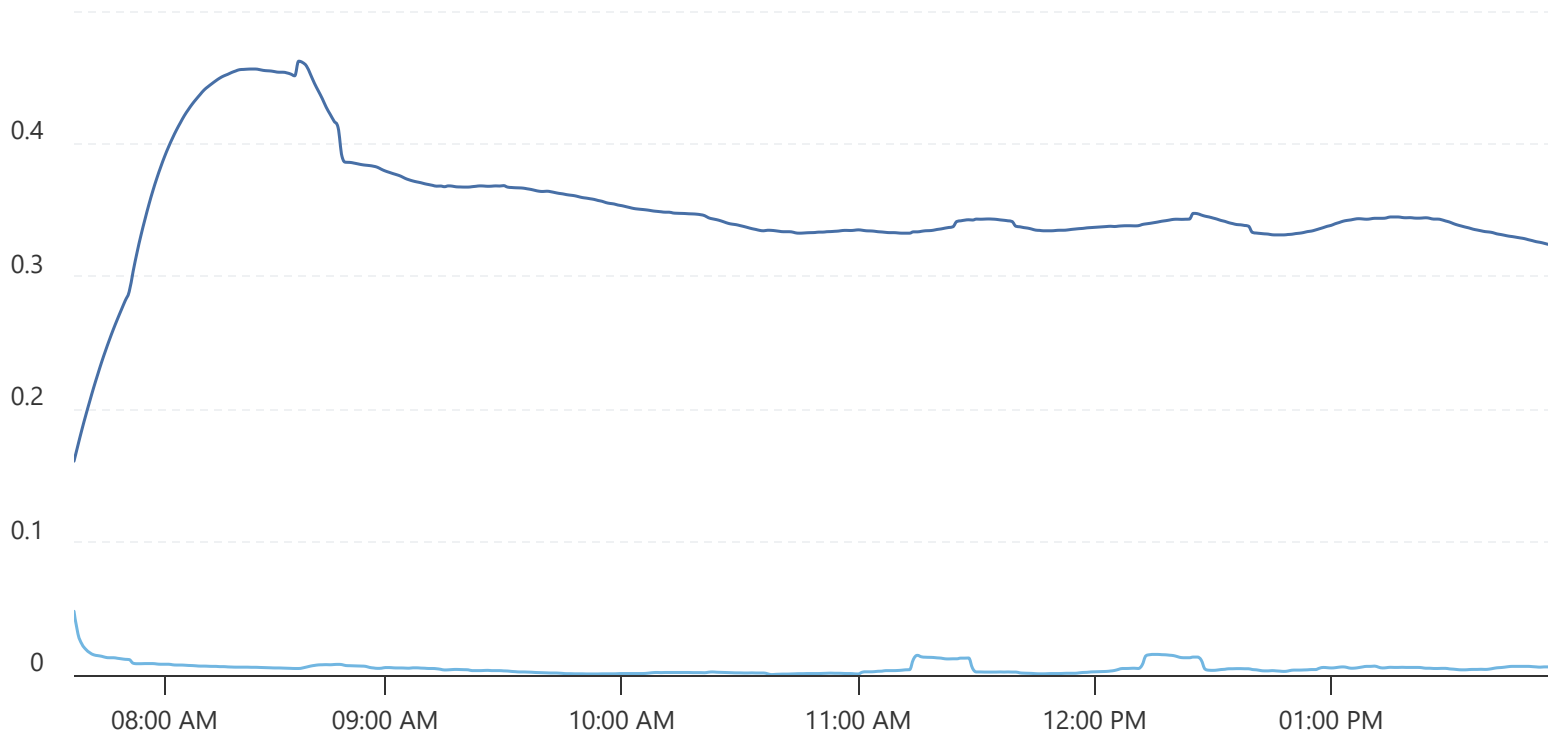
MIN **0.002** AVG **0.006** MAX **0.025**

31st Street Downwind

2B517303

05/01/2026 04:48 - 05/01/2026 16:48

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3 AVG 15 minutes

MIN **0** AVG **0.005** MAX **0.048**

VOC, ppm AVG 15 minutes

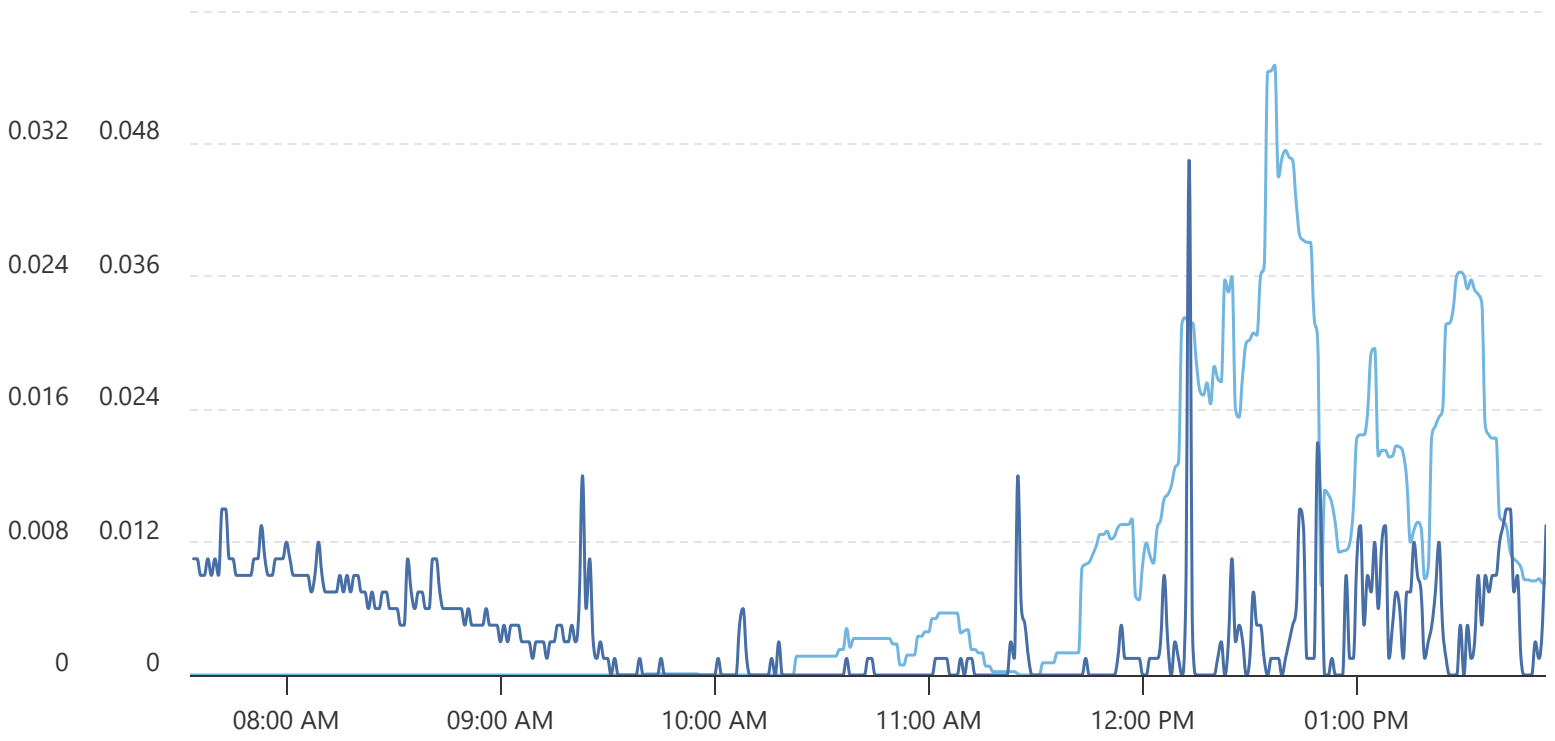
MIN **0.161** AVG **0.353** MAX **0.462**

31st Street Upwind

2B662762

05/01/2026 04:48 - 05/01/2026 16:48

(GMT-05:00) Eastern Time (US & Canada)



VOC, ppm AVG 15 minutes

MIN **0** AVG **0.008** MAX **0.055**

Mass Conc. Total, mg/m^3

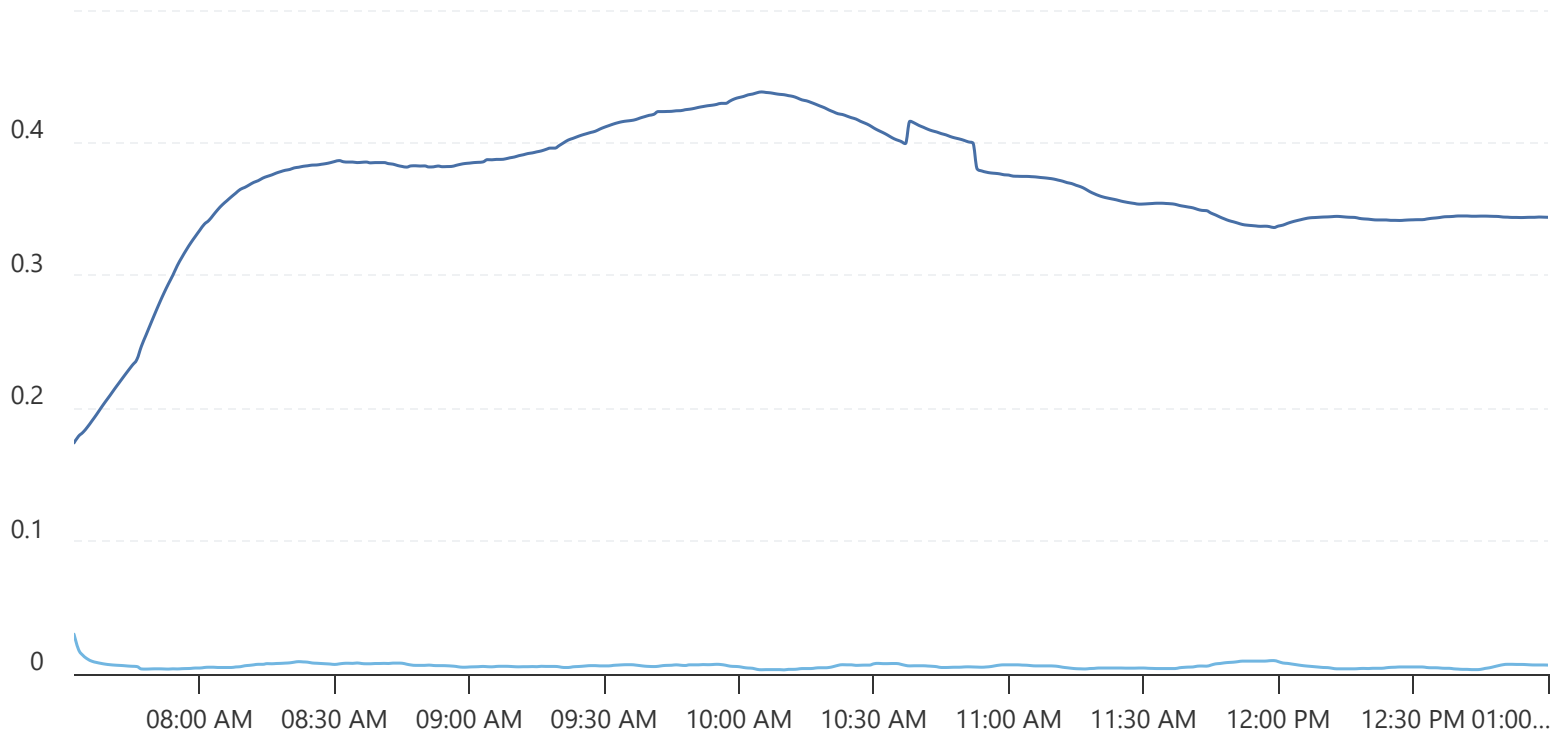
MIN **0** AVG **0.003** MAX **0.031**

31st Street Downwind

2B517303

05/11/2026 02:19 - 05/11/2026 14:19

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3 AVG 15 minutes

MIN **0.003** AVG **0.006** MAX **0.03**

VOC, ppm AVG 15 minutes

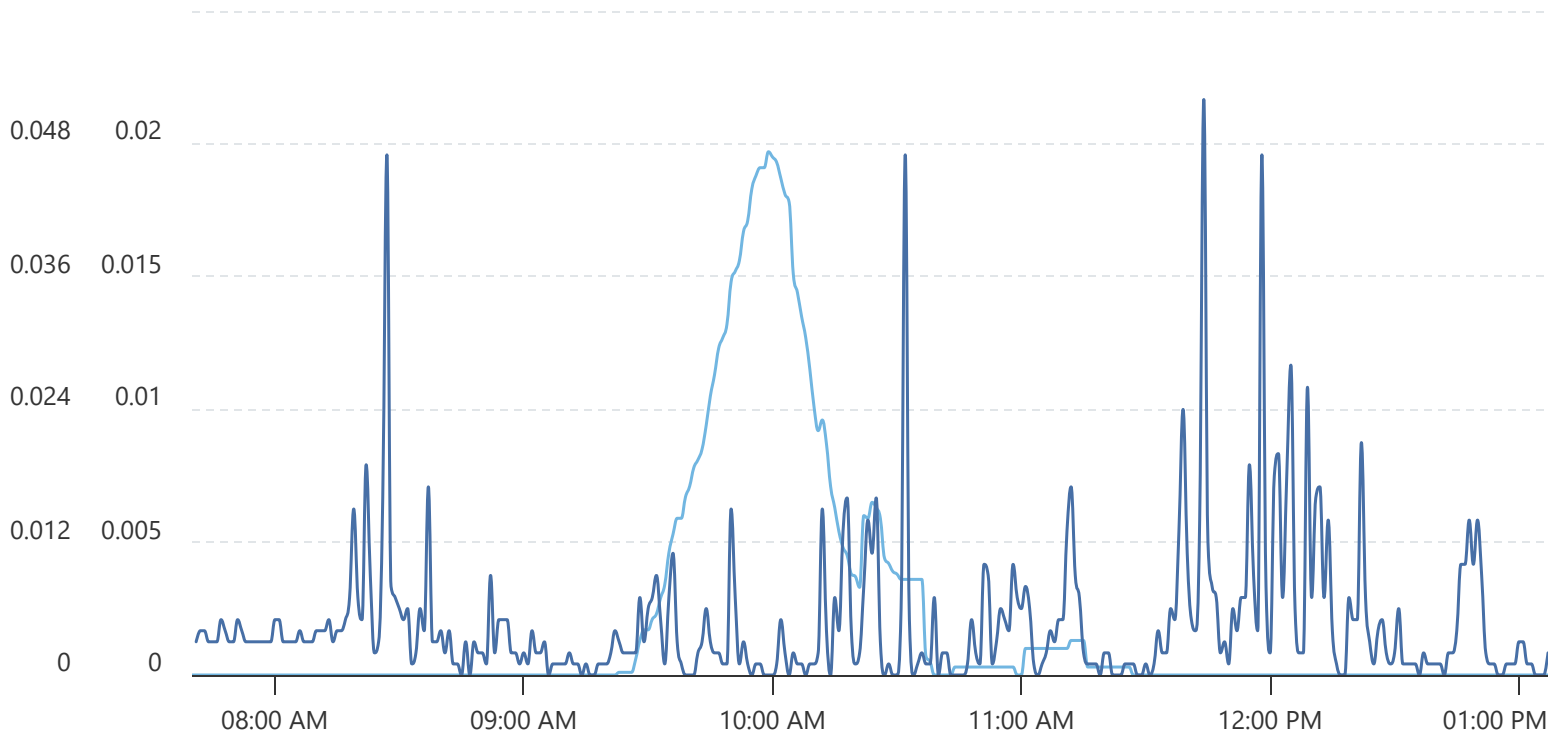
MIN **0.174** AVG **0.368** MAX **0.438**

31st Street Upwind

2B662762

05/11/2026 02:18 - 05/11/2026 14:18

(GMT-05:00) Eastern Time (US & Canada)



VOC, ppm AVG 15 minutes

MIN **0** AVG **0.002** MAX **0.02**

Mass Conc. Total, mg/m^3

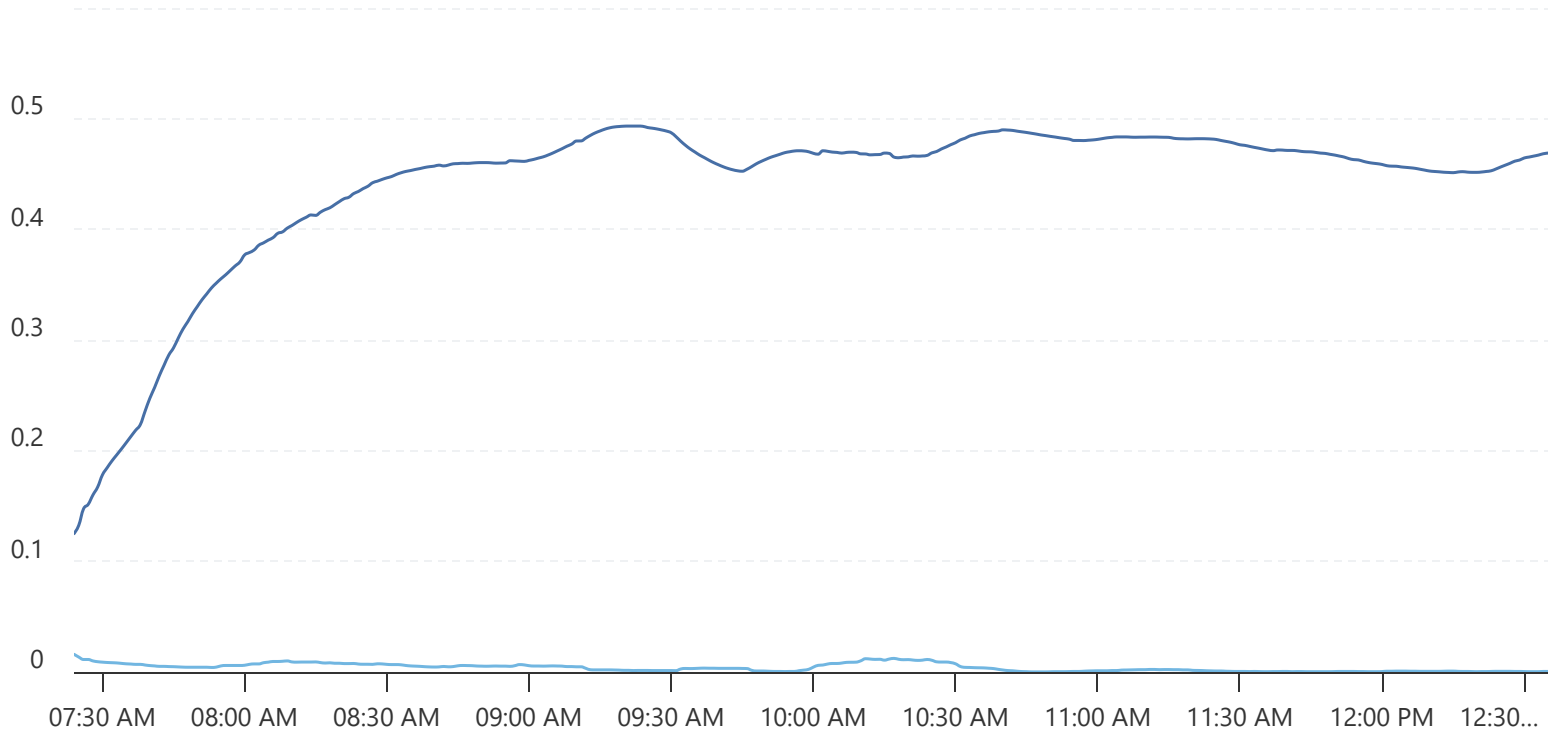
MIN **0** AVG **0.005** MAX **0.052**

31st Street Downwind

2B517303

05/12/2026 07:00 - 05/12/2026 19:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3 AVG 15 minutes

MIN **0** AVG **0.004** MAX **0.016**

VOC, ppm AVG 15 minutes

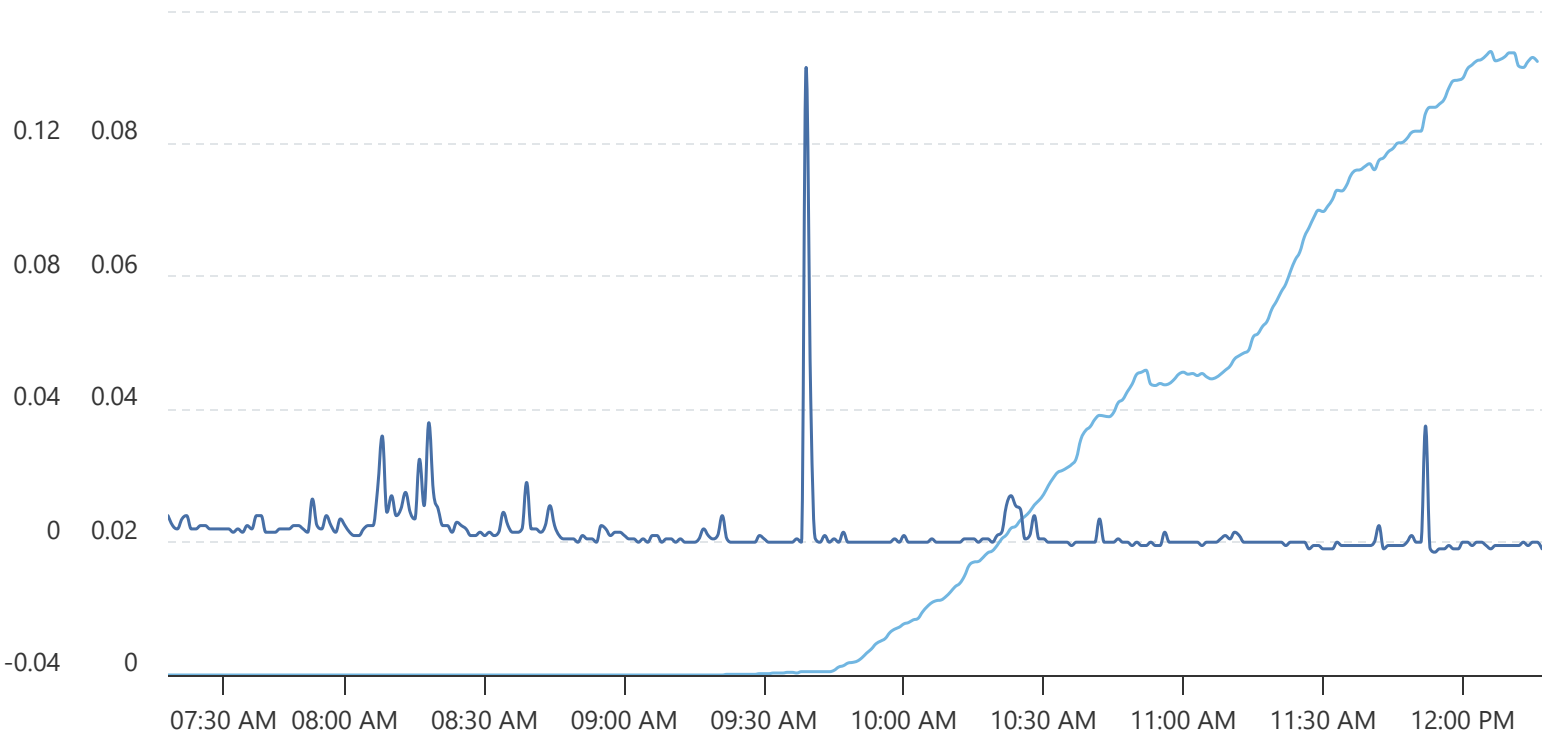
MIN **0.125** AVG **0.441** MAX **0.493**

31st Street Upwind

2B662762

05/12/2026 07:00 - 05/12/2026 19:00

(GMT-05:00) Eastern Time (US & Canada)



VOC, ppm AVG 15 minutes

MIN **0** AVG **0.025** MAX **0.094**

Mass Conc. Total, mg/m^3

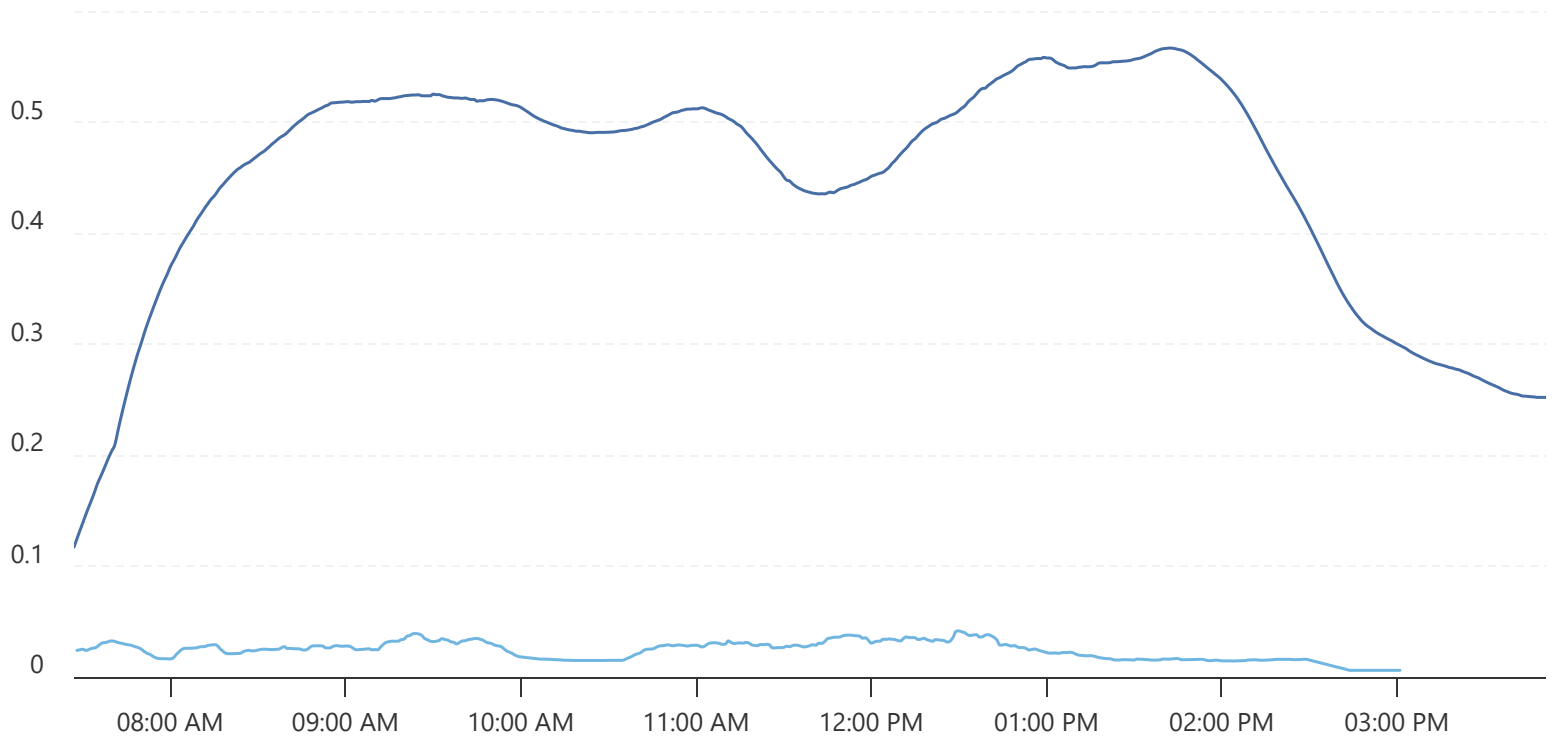
MIN **-0.003** AVG **0.003** MAX **0.143**

31st Street Downwind

2B517303

05/13/2026 04:41 - 05/13/2026 16:41

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3 AVG 15 minutes

MIN **0.006** AVG **0.024** MAX **0.042**

VOC, ppm AVG 15 minutes

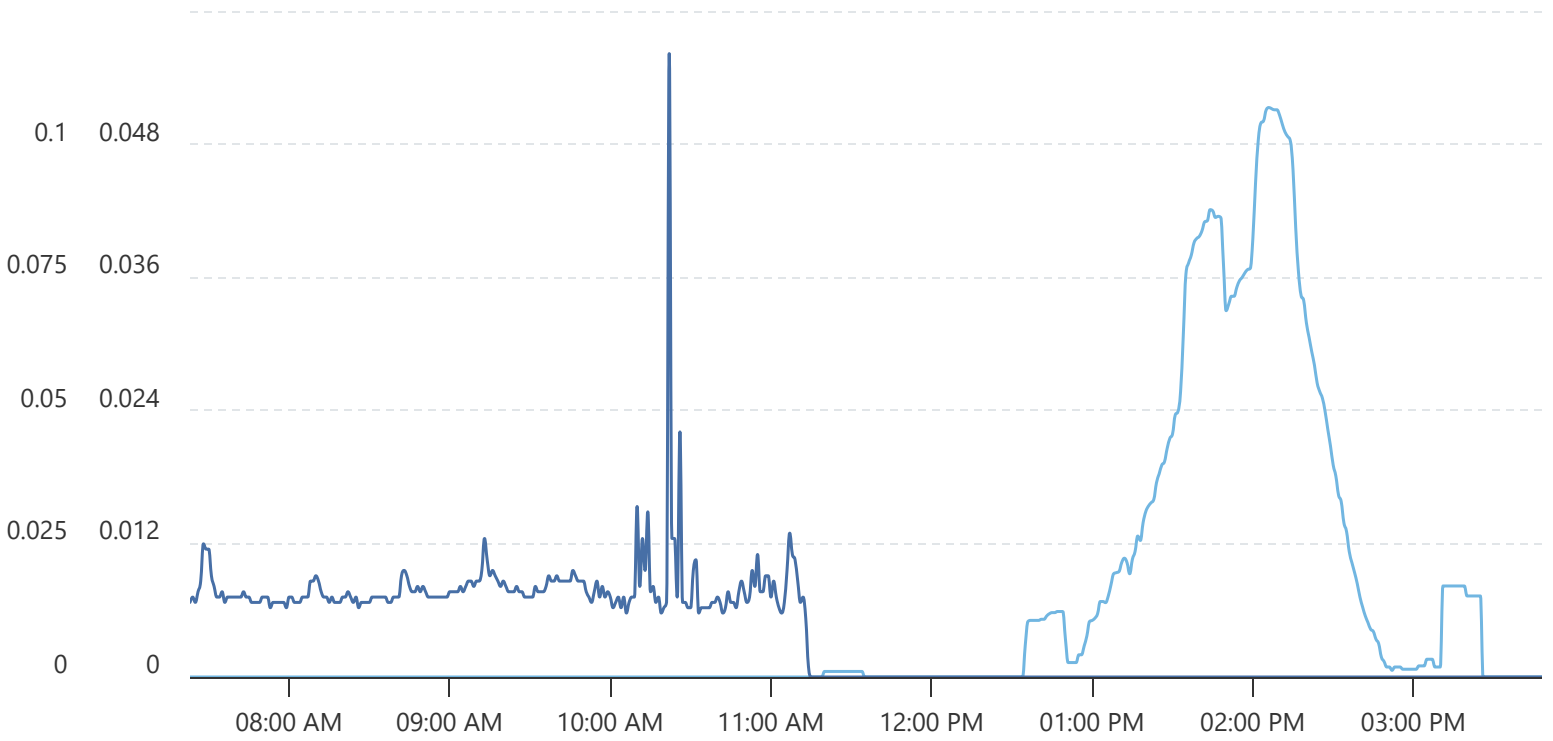
MIN **0.117** AVG **0.45** MAX **0.567**

31st Street Upwind

2B662762

05/13/2026 04:41 - 05/13/2026 16:41

(GMT-05:00) Eastern Time (US & Canada)



VOC, ppm AVG 15 minutes

MIN **0** AVG **0.006** MAX **0.051**

Mass Conc. Total, mg/m^3

MIN **0** AVG **0.008** MAX **0.117**

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New York, NY 10016

Roving Air Monitoring Log

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Project Name:	IKOS Senior Living	**Date:**	04/27/26
Project Location:	32-11 31st St, Queens	**Logged By:**	B. Quinn
Project Number:	240854	**Wind Direction:**	NE
Weather:	clear 50-67°F	**Wind Speed:**	8-12

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0615	W2	UW	ND	0.030	None	Background
0700		DW	ND	0.034	None	Boring drilling
0730		UW	ND	0.038	None	
0800		DW	ND	0.041	None	
0830		UW	ND	0.031	None	
0900		DW	ND	0.036	None	
0930		UW	ND	0.041	None	
1000		DW	ND	0.040	None	
1030		UW	ND	0.037	None	
1100		DW	ND	0.040	None	
1130		UW	ND	0.037	None	
1200		DW	ND	0.030	None	
1230		UW	ND	0.050	None	
1300		DW	ND	0.060	None	
1330		UW	ND	0.033	None	
1400		DW	ND	0.040	None	
1430						

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes: mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

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Roving Air Monitoring Log

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Project Name:	IKOS Senior Living	**Date:**	04/28/26
Project Location:	32-11 31st St, Queens	**Logged By:**	B. Gavin
Project Number:	240854	**Wind Direction:**	E
Weather:	Overcast 50-65°F	**Wind Speed:**	6-12

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0645	W2	UW	ND	0.034	None	Background
0700		DW	ND	0.040	None	Boring drilling
0730		UW	ND	0.036	None	
0800		DW	ND	0.040	None	
0830		UW	ND	0.031	None	
0900		DW	ND	0.030	None	
0930		UW	ND	0.027	None	
1000		DW	ND	0.040	None	
1030		DW	ND	0.036	None	
1100		UW	ND	0.030	None	
1130		DW	ND	0.036	None	
1200		UW	ND	0.040	None	
1230		DW	ND	0.045	None	
1300		DW	ND	0.030	None	
1330		DW	ND	0.031	None	
1400		UW	ND	0.031	None	

DW

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes:

mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

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Roving Air Monitoring Log

Page X of X

Project Name:	IKOS Senior Living	**Date:**	04/29/26
Project Location:	32-11 31st St, Queens	**Logged By:**	B. Quinn
Project Number:	240854	**Wind Direction:**	S
Weather:	Overcast 50-60°F	**Wind Speed:**	5-13

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0700	W2	UW	ND	0.009	None	Background
0730		DW	ND	0.010	None	Drilling
0800		UW	ND	0.016	None	
0830		DW	ND	0.020	None	
0900		UW	ND	0.017	None	
0930		DW	ND	0.024	None	
1000		UW	ND	0.016	None	
1030		DW	ND	0.024	None	
1100		UW	ND	0.009	None	
1130		DW	ND	0.014	None	
1200		UW	ND	0.013	None	
1230		DW	ND	0.024	None	
1300		UW	ND	0.030	None	
1330		DW	ND	0.009	None	
1400		UW	ND	0.010	None	

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes:

mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

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Roving Air Monitoring Log

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Project Name:	IKOS Senior Living	**Date:**	04/30/26
Project Location:	32-11 31st St, Queens	**Logged By:**	B. Quinn
Project Number:	240854	**Wind Direction:**	S
Weather:	Overcast 50-58	**Wind Speed:**	5-8

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0645	W2	UW	ND	0.071	None	Background
0700		DW	ND	0.030	None	Development & wells
0730		UW	ND	0.022	None	
0800		DW	ND	0.021	None	
0830		UW	ND	0.017	None	
0900		DW	ND	0.014	None	
0930		UW	ND	0.021	None	
1000		DW	ND	0.023	None	
1030		UW	ND	0.020	None	
1100		DW	ND	0.030	None	
1130		UW	ND	0.019	None	
1200		DW	ND	0.020	None	
1230		UW	ND	0.017	None	
1300		DW	ND	0.024	None	
1330		UW	ND	0.013	None	
1400		DW	ND	0.040	None	

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes:

mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

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Roving Air Monitoring Log

Page X of X

Project Name:	IKOS Senior Living	**Date:**	01/01/26
Project Location:	32-11 31st St, Queens	**Logged By:**	B. Quinn
Project Number:	240854	**Wind Direction:**	NW
Weather:	Clear 50-64°F	**Wind Speed:**	8-10

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0645	W2	UW	ND	0.038	None	Background
0700		DW	ND	0.036	None	Drilling/Development
0730		UW	ND	0.027	None	
0800		DW	ND	0.019	None	
0830		UW	ND	0.014	None	
0900		DW	ND	0.020	None	
0930		UW	ND	0.021	None	
1000		DW	ND	0.014	None	
1030		UW	ND	0.018	None	
1100		DW	ND	0.017	None	
1130		UW	ND	0.013	None	
1200		DW	ND	0.020	None	
1230		UW	ND	0.014	None	
1300		DW	ND	0.017	None	
1330		UW	ND	0.020	None	
1400		DW	ND	0.014	None	

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes:

mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

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New York, NY 10016

Roving Air Monitoring Log

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Project Name:	IKOS Senior Living	**Date:**	05/04/26
Project Location:	32-11 31st St, Queens	**Logged By:**	B. Quinn
Project Number:	240854	**Wind Direction:**	SW
Weather:	~~10-15~~ Clear 54-70°F	**Wind Speed:**	10-14

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0645	WZ	UW	ND	0.014	None	Background
0700		DW	ND	0.020	None	Well Development
0730		UW	ND	0.017	None	
0800		DW	ND	0.020	None	
0830		UW	ND	0.017	None	
0900		DW	ND	0.011	None	
0936		UW	ND	0.010	None	
1000		DW	ND	0.014	None	
1030		DW	ND	0.010	None	
1100		UW	ND	0.017	None	
1130		DW	ND	0.016	None	
1200		UW	ND	0.014	None	
1230		UW	ND	0.020	None	
1300		DW	ND	0.017	None	
1330		UW	ND	0.014	None	
1400		DW	ND	0.009	None	

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes:

mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

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440 Park Avenue South, 7th Floor
New York, NY 10016

Roving Air Monitoring Log

Page X of X

Project Name:	IKOS Senior Living	**Date:**	05/12/26
Project Location:	32-11 31st St, Queens	**Logged By:**	B. Gunn
Project Number:	240854	**Wind Direction:**	NW
Weather:	Clear 47-66°F	**Wind Speed:**	6-8

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0645	W2	UW	ND	0.031	None	Background
0700		UW	ND	0.020	None	Drilling / well Develop
0730		DW	ND	0.019	None	
0800		DW	ND	0.020	None	
0830		UW	ND	0.030	None	
0900		DW	ND	0.026	None	
0930		UW	ND	0.024	None	
1000		DW	ND	0.021	None	
1030		UW	ND	0.031	None	
1100		DW	ND	0.036	None	
1130		DW	ND	0.030	None	
1200		UW	ND	0.034	None	
1230		DW	ND	0.030	None	
1300		UW	ND	0.020	None	
1330		DW	ND	0.017	None	
1400		UW	ND	0.026	None	

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes: mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Roving Air Monitoring Log

Page X of X

Project Name:	IKOS Senior Living	**Date:**	05/13/26
Project Location:	32-11 31st St, Queens	**Logged By:**	DK
Project Number:	240854	**Wind Direction:**	S
Weather:	Overcast / Rain 55-71°F	**Wind Speed:**	6-18

Time	On-Site Location	Upwind/ Downwind	Volatiles (ppm)	Particulates (mg/m^3)	Odors	Activity/Comments
0645	W2	UW	ND	0.014	None	Background
0700		DW	ND	0.030	None	Drilling / Excavation
0730		UW	ND	0.034	None	
0800		DW	ND	0.011	None	
0830		UW	ND	0.030	None	
0900		DW	ND	0.027	None	
0930		UW	ND	0.022	None	
1000		DW	ND	0.026	None	
1030		UW	ND	0.027	None	
1100		DW	ND	0.040	None	
1130		UW	ND	0.030	None	
1200		DW	ND	0.046	None	
1230		UW	ND	0.037	None	
1300		DW	ND	0.030	None	
1330		UW	ND	0.040	None	
1400		DW	ND	0.036	None	
1430		UW	ND	0.030	None	
1500		DW	ND	0.021	None	

Work Zone Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
<5 ppm	Level D	<0.15 mg/m^3 Above Background	Level D
≥5 ppm and ≥ 50 ppm	Level C	≥0.15 mg/m^3 Above Background	Implement Particulate Suppression
> 50 ppm	Stop Work		

Community Action Levels

Volatiles (ppm)		Particulates (mg/m^3)	
>5 ppm Above Background	Stop Work Temporarily, Continue Air Monitoring	>0.1 mg/m^3 Above Background, No Visible Dust Migration	Implement Particulate Suppression, Continue Air Monitoring
>5 ppm and <25 ppm Above Background	Stop Work Temporarily, Identify Vapor Source, Abate Emissions	>0.15 mg/m^3 above background	Stop Work Until Particulate Suppression Reduces Concentrations
>25 ppm Above Background	Stop Work		

Notes:

mg/m^3 = micrograms per cubic meter ppm = parts per million

Refer to CAMP for comprehensive action level procedures.

APPENDIX D
GEOPHYSICAL INVESTIGATION REPORT

RADAR DYNAMICS

GEOPHYSICAL AND SUBSURFACE SOLUTIONS

Geophysical Investigation Report

Location:

32-11 Street

Astoria, (Queens), NY 11106

Prepared for:

Adrianna Bosco

AKRF

440 Park Avenue South, 7th Floor

New York, NY 10016

Investigated and prepared by:

Radar Dynamics

5-23 Essex Place

Fair Lawn, NJ 07410

Completed on:

April 27, 2026

INTRODUCTION

Radar Dynamics is a firm which provides geophysical investigating and underground locating services. The services we provide are specifically grounded in applying geophysical methods to obtain subsurface data allowing our clients to make informed decisions when investigating or removing subsurface structures and anomalies.

METHODOLOGY

Geophysical surveys are typically accomplished by employing the following techniques; Ground penetrating radar (GPR), electromagnetic metal detector (EM), radio frequency line locating (RF), underground storage tanks (USTs), utilities, and metallic anomalies are typically traced and mapped with RF, GPR, and EM units depending on the size, matrix, and conductive properties of the targets. Site conditions and client specifications of areas of concern (AOCs), determine the survey extents and equipment used to provide the most comprehensive data possible.

Equipment Used:

Easy Radar ER-500A Ground Penetrating Radar (GPR)

Radiodetection RD8000 Pipe and Cable Locator

Schonstedt HeliFlux Magnetic Locator

Fisher TW-6 Metallic Locator

SCOPE OF WORK

On April 27, 2026, a geophysical survey was completed at 32-11 31st Street Astoria (Queens), NY 11106 (herein referred to as the “property”). The purpose of this survey was to detect possible USTs (underground storage tanks), designate utilities/conduits, and clear proposed boring locations in client-specified areas of the property.

SURVEY RESULTS

A physical inspection was conducted throughout the property extents. No metallic anomalies which typically consist of an UST (underground storage tank) were detected with the magnetometer. The Ground Penetrating Radar (GPR) was used to further investigate and confirm the findings. The Ground Penetrating Radar (GPR) did not record any data which typically consists of an UST (underground storage tank). The absence of a fill port and vent pipe was confirmed on site as well. Linear anomalies were designated on site with spray paint using the following colors: red – electric and green – storm drain lines. (See Figure 1)



Electric – Red
Storm Sewer - Green

Figure 1: Area of designated utilities. *(Not to scale)

LIMITATIONS

Due to surface conditions and the dielectric properties of the subsurface and properties of concrete, plastic polymer, and fiberglass, not all subsurface anomalies and utilities have been detected. Buildings, fence lines, curb lines, linear walls, exterior walls, parked vehicles, metal structures, trees, uneven terrain, and overgrown vegetation may have affected survey results near and immediately beneath them.

WARRANTIES

- Radar Dynamics does not guarantee that utilities, conduit, and steel reinforcement will be avoided during drilling, cutting, trenching, and coring.

- All utility designating will be in compliance with ASCE 38-02 (level B).

- All field services were conducted in compliance with the industry of standard of care guidelines found in CSDA-BP-007 and marked in appropriate colors as per the APWA (American Public Works Association).

- Wet floors will not allow proper marking with paint and/or permanent marker.

- All concrete slabs must be monolithic pours.

- Dairy brick and some types of tile may cause signal interference.

- New concrete can adversely affect the signal penetration and should be given a minimum of one month curing time.

- All areas should be clear for scanning and marking.

The field observations and measurements reported herein are considered sufficient in detail and scope for this project. Radar Dynamics warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted geophysical methods. There is a possibility that conditions may exist which could not be identified within the scope of this project and were not apparent during the site activities performed for this project. Radar Dynamics will

not be responsible if an underground anomaly that was not detected, nor will Radar Dynamics be held responsible for the removable, remediation, or additional expenses incurred of a missed underground tank.

Radar Dynamics represents that the services were performed in a manner consistent with that level of care and skill ordinarily exercised by geophysical consultants under similar circumstances. No other representations to client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

Radar Dynamics believes that the information provided in this report is reliable. However, Radar Dynamics cannot warrant or guarantee that the information provided by others is complete or accurate. No other warranties or guarantees are implied or expressed.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating, drilling, and cutting around subsurface structures and utilities since GPR data can only be used for estimation purposes and GPR data is subject to misinterpretation. Radar Dynamics cannot guarantee that utilities, post-tension cables, and/or rebar will not be incurred during drilling, cutting, coring, and excavation activities.

Hand clearing or vacuum-excavation should be performed within 2.5’ of any marks. Radar Dynamics does not guarantee that utilities will not be encountered during drilling and/or excavation. Markout services performed by Radar Dynamics do not satisfy state mark out requirements. By law, the appropriate state markout service must be notified prior to any digging activities (i.e. NJ one-call, PA one-call, CT call before you dig, MD & VA miss utility, dig safely NY, FL one-call, 811 one-call, call before you dig, Sunshine State One-Call).

This report was prepared pursuant to the contract Radar Dynamics with the client. That contractual relationship included an exchange of information about the property that was unique between Radar Dynamics and its client and serves as the basis upon which this report was prepared. Because of the importance of communication between Radar Dynamics and its client, reliance, or any use of this report by anyone other than the client, for whom it was prepared, is prohibited and therefore not foreseeable to Radar Dynamics.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to Radar Dynamics contract with the client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party’s risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

APPENDIX E
SOIL BORING LOGS AND GROUNDWATER MONITORING WELL CONSTRUCTION LOGS

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 2	RI-MW-01S	Soil Boring ID:	RI-SB-01

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic sleeve
Driller:	Eastern Environmental
Weather:	60 ºF, Mostly cloudy
Logged by:	D. Kawalek

Drilling
Start Time: 08:00 | Finish Time: 10:00
Date: 2026-05-13

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1–20		**Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade.** **2" diameter PVC well casing: 0.5' to 27' below grade.** **Non-shrinking cement grout: 1' to 23' below grade.**	120	Brown SAND, some Fine Gravel, little Glass, trace Silt (FILL).	ND	Dry	ND	ND	RI-SB-01_0-0.17_20260513 RI-SB-01_0-2_20260513 RI-SB-01_2-4_20260513
			90	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	0.1	ND	

Notes: **Groundwater Depth Indicator**

Groundwater measured at 31.6 feet below grade in RI-MW-01S.

Groundwater monitoring well installed to 37 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 31.5 feet below surface grade during soil boring advancement.

End of soil boring at 37 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ppm = parts per million** **ND = not detected**

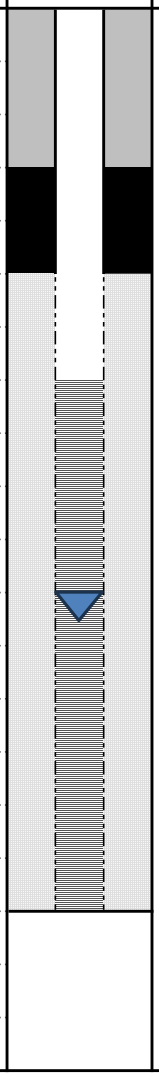
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 2	RI-MW-01S	Soil Boring ID:	RI-SB-01

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic sleeve
Driller:	Eastern Environmental
Weather:	60 ºF, Mostly cloudy
Logged by:	D. Kawalek

Drilling
Start Time: 08:00 | Finish Time: 10:00
Date: 2026-05-13

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21–40		Bentonite seal: 23' to 25' below grade. Sandpack: 25' to 37' below grade. 2" PVC well screen: 27' to 37' below grade.	84	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-01_15-17_20260513
			78	Brown SAND, trace Fine Gravel, Silt.	ND	Wet	ND	ND	RI-SB-01_29.5-31.5_20260513

Notes:
Groundwater Depth Indicator

Groundwater measured at 31.6 feet below grade in RI-MW-01S.

Groundwater monitoring well installed to 37 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 31.5 feet below surface grade during soil boring advancement.

End of soil boring at 37 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	RI-MW-01D	Soil Boring ID:	RI-SB-01

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic sleeve
Driller:	Eastern Environmental
Weather:	60 ºF, Mostly cloudy
Logged by:	D. Kawalek

Drilling
Start Time: 08:00 | Finish Time: 10:00
Date: 2026-05-13

Surface Condition: Asphalt

Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade.

2" diameter PVC well casing: 0.5' to 31' below grade.

Non-shrinking cement grout: 1' to 31' below grade.

Depth (feet)	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1–10	120	Brown SAND, some Fine Gravel, little Glass, trace Silt (FILL).	ND	Dry	ND	ND	
11–20	90	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	0.1	ND	

Notes:
Groundwater Depth Indicator

Groundwater measured at 31.69 feet below grade in RI-MW-01D.

Groundwater monitoring well installed to 45 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 31.5 feet below surface grade during soil boring advancement.

End of soil boring at 45 feet below surface grade due to refusal on apparent bedrock.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	RI-MW-01D	Soil Boring ID:	RI-SB-01

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic sleeve
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	D. Kawalek

Drilling
Start Time: 08:00 | Finish Time: 10:00
Date: 2026-05-13

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21–30			84	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
31									
32		Bentonite seal: 31' to 33' below grade.							
33				Brown SAND, trace Fine Gravel, Silt.	ND	Wet	ND	ND	
34		Sandpack: 33' to 45' below grade.							
35–36			78						
36		2" PVC well screen: 35' to 45' below grade.							
37–40									

Notes: Groundwater Depth Indicator

Groundwater measured at 31.69 feet below grade in RI-MW-01D.

Groundwater monitoring well installed to 45 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 31.5 feet below surface grade during soil boring advancement.

End of soil boring at 45 feet below surface grade due to refusal on apparent bedrock.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	RI-MW-01D	Soil Boring ID:	RI-SB-01

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic sleeve
Driller:	Eastern Environmental
Weather:	60 ºF, Mostly cloudy
Logged by:	D. Kawalek

Drilling
Start Time: 08:00 | Finish Time: 10:00
Date: 2026-05-13

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
41		2" PVC well screen: 35' to 45' below grade.	84	Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
42									
43									
44									
45									
46			78	Brown SAND, trace Fine Gravel, Silt.	ND	Wet	ND	ND	
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									

Notes: Groundwater Depth Indicator

Groundwater measured at 31.69 feet below grade in RI-MW-01D.

Groundwater monitoring well installed to 45 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 31.5 feet below surface grade during soil boring advancement.

End of soil boring at 45 feet below surface grade due to refusal on apparent bedrock.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

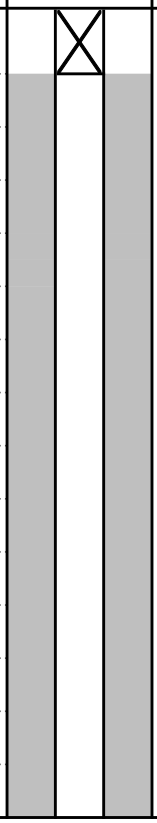
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	RI-MW-02	Soil Boring ID:	RI-SB-02

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	60°F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 08:00:00 | Finish Time: 10:00:00
Date: 2026-04-29

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade. 2" diameter PVC well casing: 0.5' to 38' below grade. Non-shrinking cement grout: 1' to 24' below grade.	46	Top 10": Brown SAND, little Fine Gravel, trace Asphalt, Brick (FILL). Bottom 31": Brown SAND, little Fine Gravel, trace Silt.	ND ND	Dry Dry	ND ND	ND ND	RI-SB-02_0-0.17_20260427 RI-SB-02_0-2_20260427 RI-SB-02_2-4_20260427
2									
3									
4									
5									
6			40	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
7									
8									
9									
10									
11			50	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
12									
13									
14									
15									

Notes: Groundwater Depth Indicator

Groundwater measured at 29.91 feet below grade in RI-MW-02.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

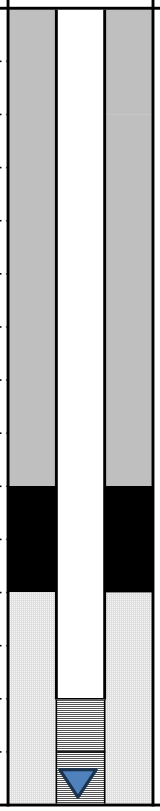
End of soil boring at 38 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ppm = parts per million** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	RI-MW-02	Soil Boring ID:	RI-SB-02

akrf 440 Park Avenue South, 7th Floor New York, NY 10016		
Drilling Method:	DPP	Drilling
Sampling Method:	5' Macrocore	Start Time: 08:00:00 / Finish Time: 10:00:00
Driller:	Eastern Environmental	
Weather:	60 ºF, Mostly cloudy	Date: 2026-04-29
Logged by:	B. Quinn	

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		2" PVC well casing: 0 to 28' below surface grade.	43	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-02_15-17_20260429
17									
18									
19									
20									
21			51	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
22									
23									
24		Bentonite seal: 24' to 36' below grade.							
25									
26		Sandpack: 26' to 38' below grade.	54	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
27									
28		2" PVC well screen: 28' to 38' below grade.							
29									RI-SB-02_28-30_20260429
30									

Notes: Groundwater Depth Indicator

Groundwater measured at 29.91 feet below grade in RI-MW-02.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 38 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	RI-MW-02	Soil Boring ID:	RI-SB-02

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	60 ºF, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 08:00:00 | Finish Time: 10:00:00
Date: 2026-04-29

Surface Condition: Asphalt

Sandpack: 26' to 38' below grade.

2" PVC well screen: 28' to 38' below grade.

Depth (feet)	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31–38	54	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
	60	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
38–45							

Notes:
Groundwater Depth Indicator

Groundwater measured at 29.91 feet below grade in RI-MW-02.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 38 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	RI-MW-03	Soil Boring ID:	RI-SB-03

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 ºF, Fair
Logged by:	B. Quinn

Drilling
Start Time: 10:00:00 | Finish Time: 13:00:00
Date: 2026-04-27

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade. 2" diameter PVC well casing: 0.5' to 25' below grade. Non-shrinking cement grout: 1' to 21' below grade.	16	Brown SAND, little Fine Gravel, trace Asphalt, Silt (FILL).	ND	Dry	ND	ND	RI-SB-03_0-0.17_20260427 RI-SB-03_0-2_20260427 RI-SB-03_2-4_20260427
2									
3									
4									
5									
6			22	Brown SAND, little Fine Gravel, trace Asphalt (FILL).	ND	Dry	ND	ND	
7									
8									
9									
10									
11			22	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
12									
13									
14									
15									

Notes: Groundwater Depth Indicator

Groundwater measured at 31.28 feet below grade in RI-MW-03.

Groundwater monitoring well installed to 35 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 35 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ppm = parts per million** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	RI-MW-03	Soil Boring ID:	RI-SB-03

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 °F, Fair
Logged by:	B. Quinn

Drilling
Start Time: 10:00:00 | Finish Time: 13:00:00
Date: 2026-04-27

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16–17–18–19–20		2" PVC well casing: 0.5 to 25' below surface grade.	35	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-03_15-17_20260427
21–22–23		Bentonite seal: 21' to 23' below grade.	36	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
24–25–26–27–28–29–30		Sandpack: 23' to 35' below grade. 2" PVC well screen: 25 to 35' below surface grade.	50	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-03_28-30_20260427

Notes:
Groundwater Depth Indicator ▽
Groundwater measured at 31.28 feet below grade in RI-MW-03.
Groundwater monitoring well installed to 35 feet below surface grade.

Soil samples collected and sent for laboratory analysis.
Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.
End of soil boring at 35 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

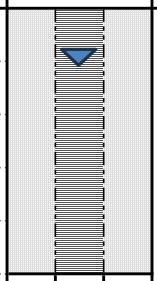
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	RI-MW-03	Soil Boring ID:	RI-SB-03

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 °F, Fair
Logged by:	B. Quinn

Drilling
Start Time: 10:00:00 | Finish Time: 13:00:00
Date: 2026-04-27

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31		2" PVC well casing: 0 to 35' below surface grade.	35	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

Notes: Groundwater Depth Indicator

Groundwater measured at 31.28 feet below grade in RI-MW-03.

Groundwater monitoring well installed to 35 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 35 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	RI-MW-04	Soil Boring ID:	RI-SB-04

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 °F, Fair
Logged by:	B. Quinn

Drilling
Start Time: 12:30:00 | Finish Time: 14:30:00
Date: 2026-04-27

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade. 2" diameter PVC well casing: 0.5' to 25' below grade. Non-shrinking cement grout: 1' to 21' below grade.	45	Brown SAND, little Concrete, Fine Gravel, trace Asphalt, Brick (FILL).	ND	Dry	ND	ND	RI-SB-04_0-0.17_20260427 RI-SB-04_0-2_20260427 RI-SB-04_2-4_20260427
2									
3									
4									
5									
6			36	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
7									
8									
9									
10									
11			28	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
12									
13									
14									
15									

Notes: Groundwater Depth Indicator

Groundwater measured at 30.29 feet below grade in RI-MW-04.

Groundwater monitoring well installed to 35 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 35 feet below surface grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ppm = parts per million** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	RI-MW-04	Soil Boring ID:	RI-SB-04

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 °F, Fair
Logged by:	B. Quinn

Drilling
Start Time: 12:30:00 | Finish Time: 14:30:00
Date: 2026-04-27

Surface Condition: Asphalt

Depth (feet)	Well Construction	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		52	Light Brown SAND, some Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-04_15-17_20260428
17								
18								
19								
20								
21	Bentonite seal: 21' to 23' below grade.	48	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
22								
23	Sandpack: 23' to 35' below grade.							
24								
25	2" PVC well screen: 25' to 35' below grade.	56	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
26								
27								
28								
29								RI-SB-04_28-30_20260428
30								

Notes:
Groundwater Depth Indicator ▽

Groundwater measured at 30.29 feet below grade in RI-MW-04.

Groundwater monitoring well installed to 35 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 35 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

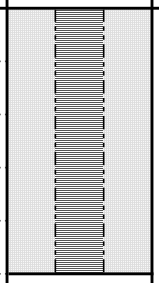
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	RI-MW-04	Soil Boring ID:	RI-SB-04

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 °F, Fair
Logged by:	B. Quinn

Drilling
Start Time: 12:30:00 | Finish Time: 14:30:00
Date: 2026-04-27

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31		Sandpack: 23' to 35' below grade. 2" PVC well screen: 25' to 35' below grade.	54	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

Notes: Groundwater Depth Indicator

Groundwater measured at 30.29 feet below grade in RI-MW-04.

Groundwater monitoring well installed to 35 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 35 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 2	RI-MW-05S	Soil Boring ID:	RI-SB-05

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic Sleeve
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 07:50 | Finish Time: 11:30
Date: 2026-05-11

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade. 2" diameter PVC well casing: 0.5' to 27' below grade. Non-shrinking cement grout: 1' to 23' below grade.	40	Brown Fine GRAVEL and SAND, trace Asphalt, Brick, Metal (FILL).	ND	Dry	ND	ND	RI-SB-05_0-0.17_20260501 RI-SB-05_0-2_20260501 RI-SB-05_2-4_20260501
2									
3									
4									
5									
6									
7									
8									
9									
10									
11			68	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-05_15-17_20260511
12									
13									
14									
15									
16									
17									
18									
19									
20									

Notes: Groundwater Depth Indicator

Groundwater measured at 32.07 feet below grade in RI-MW-05S.

Groundwater monitoring well installed to 37 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 37 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 2	RI-MW-05S	Soil Boring ID:	RI-SB-05

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic Sleeve
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 07:50 | Finish Time: 11:30
Date: 2026-05-11

Surface Condition: Asphalt

Depth (feet)	Well Construction	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21–24	Bentonite seal: 23' to 25' below grade.	84	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-05_28-30_20260511
25–30	Sandpack: 25' to 37' below grade.							
31–37	2" PVC well screen: 27' to 37' below grade.	39	Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
38–40								

Notes:
Groundwater Depth Indicator

Groundwater measured at 32.07 feet below grade in RI-MW-05S.

Groundwater monitoring well installed to 37 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 37 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 3	RI-MW-05D	Soil Boring ID:	RI-SB-05

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic Sleeve
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 07:50 | Finish Time: 11:30
Date: 2026-05-11

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade.							
2		2" diameter PVC well casing: 0.5' to 40' below grade.							
3									
4		Non-shrinking cement grout: 1' to 36' below grade.							
5			45	Brown SAND, some Fine Gravel, little Glass, trace Silt (FILL).	ND	Dry	ND	ND	
6									
7									
8									
9									
10									
11									
12									
13									
14				Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
15			90						
16									
17									
18									
19									
20									

Notes:
Groundwater Depth Indicator

Groundwater measured at 31.6 feet below grade in RI-MW-05D.

Groundwater monitoring well installed to 50 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 50 feet below surface grade due to refusal on apparent bedrock.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 3	RI-MW-05D	Soil Boring ID:	RI-SB-05

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic Sleeve
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 07:50 | Finish Time: 11:30
Date: 2026-05-11

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21–30			84	Brown SAND, little Fine Gravel, trace Silt.	ND	Moist	ND	ND	
31–40		Bentonite seal: 36' to 38' below grade. Sandpack: 38' to 50' below grade.	78	Brown SAND, trace Fine Gravel, Silt.	ND	Wet	ND	ND	

Notes: Groundwater Depth Indicator

Groundwater measured at 31.6 feet below grade in RI-MW-05D.

Groundwater monitoring well installed to 50 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 50 feet below surface grade due to refusal on apparent bedrock.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 3	RI-MW-05D	Soil Boring ID:	RI-SB-05

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic DPP
Sampling Method:	10' Plastic Sleeve
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 07:50 | Finish Time: 11:30
Date: 2026-05-11

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
41									
42									
43		2" PVC well screen: 40' to 50' below grade.		Top 33": Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
44				Middle 40": Gray SILT, little Fine Gravel, Sand.	ND	Wet	ND	ND	
45			78						
46				Bottom 5": Weathered BEDROCK.	ND	Wet	ND	ND	
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									

Notes:
Groundwater Depth Indicator

Groundwater measured at 31.6 feet below grade in RI-MW-05D.

Groundwater monitoring well installed to 50 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 30 feet below surface grade during soil boring advancement.

End of soil boring at 50 feet below surface grade due to refusal on apparent bedrock.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 2	RI-MW-06	Soil Boring ID:	RI-SB-06

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 07:30:00 | Finish Time: 09:30:00
Date: 2026-04-29

Surface Condition: Asphalt

Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade.

2" diameter PVC well casing: 0.5' to 28' below grade.

Non-shrinking cement grout: 1' to 24' below grade.

Depth (feet)	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	17	Top 14": Brown SAND, little Fine Gravel, trace Asphalt, Silt (FILL).	ND	Dry	ND	ND	RI-SB-06_0-0.17_20260429
2		Bottom 3": Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-06_0-2_20260429
3							RI-SB-06_2-4_20260429
4							
5							
6	30	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
7							
8							
9							
10	50	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
11							
12							
13							
14							
15	36	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-06_15-17_20260429
16							
17							
18							
19							
20							

Notes:
Groundwater Depth Indicator

Groundwater measured at 32.79 feet below grade in RI-MW-06.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 31 feet below surface grade during soil boring advancement.

End of soil boring at 38 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 2	RI-MW-06	Soil Boring ID:	RI-SB-06

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	60 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 07:30:00 | Finish Time: 09:30:00
Date: 2026-04-29

Surface Condition: Asphalt

Bentonite seal: 24' to 26' below grade.

Sandpack: 26' to 38' below grade.

2" PVC well screen: 28' to 38' below grade.

Depth (feet)	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21–24	54	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
25–28	34	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
29–32	54	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	RI-SB-06_29-31_20260429
33–36	50	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
37–40							

Notes:
Groundwater Depth Indicator

Groundwater measured at 32.79 feet below grade in RI-MW-06.

Groundwater monitoring well installed to 38 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 31 feet below surface grade during soil boring advancement.

End of soil boring at 38 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 2	RI-MW-07	Soil Boring ID:	RI-SB-07

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	64 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 11:00 | Finish Time: 13:00
Date: 2026-04-28

Surface Condition: Asphalt

Well Construction: Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade.; 2" diameter PVC well casing: 0.5' to 30' below grade.; Non-shrinking cement grout: 1' to 26' below grade.

Depth (feet)	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1 - 4	34	Brown Fine GRAVEL and SAND, trace Asphalt, Brick, Silt (FILL).	ND	Dry	ND	ND	RI-SB-07_0-0.17_20260428 RI-SB-07_0-2_20260428 RI-SB-07_2-4_20260428
5 - 8	29	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
9 - 13	54	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
14 - 20	35	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-07_15-17_20260429

Notes: Groundwater Depth Indicator

Groundwater measured at 35.03 feet below grade in RI-MW-07.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 2	RI-MW-07	Soil Boring ID:	RI-SB-07

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	64 °F, Mostly cloudy
Logged by:	B. Quinn

Drilling
Start Time: 11:00 | Finish Time: 13:00
Date: 2026-04-28

Surface Condition: Asphalt

Depth (feet)	Well Construction	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21		56	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-07_15-17_20260429
22								
23								
24								
25								
26		40	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
27	Bentonite seal: 26' to 28' below grade.							
28								
29	Sandpack: 28' to 40' below grade.							
30		54	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-07_33-35_20260428
31	2" PVC well screen: 30' to 40' below grade.							
32								
33								
34								
35		54	Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
36								
37								
38								
39								
40								

Notes: Groundwater Depth Indicator

Groundwater measured at 35.03 feet below grade in RI-MW-07.

Groundwater monitoring well installed to 40 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 35 feet below surface grade during soil boring advancement.

End of soil boring at 40 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 1 of 4	RI-MW-08	Soil Boring ID:	RI-SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic drill rig
Sampling Method:	10' Dedicated plastic liner
Driller:	Eastern Environmental
Weather:	51-67 °F, Fair
Logged by:	B. Quinn, AKRF

Drilling
Start Time: 07:40 | Finish Time: 11:00
Date: 05/12/26

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1		Flush-mounted well cover, locking j-plug, and concrete well pad: grade to 1' below grade. 2" diameter PVC well casing: 0.5' to 38' below grade. Non-shrinking cement grout: 1' to 34' below grade.	37	Top 24": Brown SAND and fine GRAVEL, trace Silt, Brick, Asphalt, (FILL).	None	Dry	ND	ND	RI-SB-08_0-0.17_20260501 RI-SB-08_0-2_20260501 RI-SB-08_2-4_20260501
2									
3									
4									
5									
6									
7									
8									
9									
10			27	Top 14": Brown SAND, little fine Gravel, trace Silt.	None	Dry	ND	ND	
11									
12									
13									
14									
15									

Notes: Groundwater Depth Indicator

Groundwater measured at 36.12 feet below grade in RI-MW-08.

Groundwater monitoring well installed to 48 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 38 feet below surface grade during soil boring advancement.

End of soil boring at 48 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 2 of 4	RI-MW-08	Soil Boring ID:	RI-SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic drill rig
Sampling Method:	10' Dedicated plastic liner
Driller:	Eastern Environmental
Weather:	51-67 °F, Fair
Logged by:	B. Quinn, AKRF

Drilling
Start Time: 07:40 | Finish Time: 11:00
Date: 05/12/26

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
16		2" diameter PVC well casing: 0.5' to 38' below grade. Non-shrinking cement grout: 1' to 34' below grade.	27	Bottom 13": Brown SAND, little fine Gravel, trace Silt.	None	Dry	ND	ND	RI-SB-08_15-17_20260512
17									
18									
19									
20									
21			24	Brown SAND, little fine Gravel, trace Silt.	None	Dry	ND	ND	
22									
23									
24									
25									
26									
27									
28									
29									
30									

Notes: Groundwater Depth Indicator

Groundwater measured at 36.12 feet below grade in RI-MW-08.

Groundwater monitoring well installed to 48 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 38 feet below surface grade during soil boring advancement.

End of soil boring at 48 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

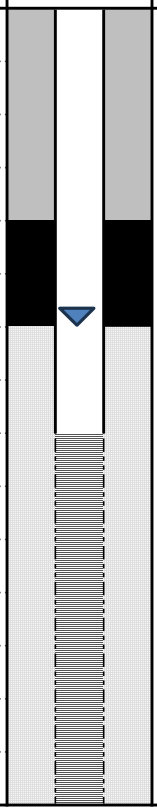
Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 3 of 4	RI-MW-08	Soil Boring ID:	RI-SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic drill rig
Sampling Method:	10' Dedicated plastic liner
Driller:	Eastern Environmental
Weather:	51-67 °F, Fair
Logged by:	B. Quinn, AKRF

Drilling
Start Time: 07:40 | Finish Time: 11:00
Date: 05/12/26

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45		Bentonite seal: 34' to 36' below grade. Sandpack: 36' to 48' below grade. 2" PVC well screen: 38' to 48' below grade.	26	Brown SAND, little Fine Gravel, trace Silt.	None	Dry	ND	ND	RI-SB-08_36-38_20260512
			71	Brown SAND and SILT, trace Fine Gravel.	None	Wet	ND	ND	

Notes:
Groundwater Depth Indicator
Groundwater measured at 36.12 feet below grade in RI-MW-08.
Groundwater monitoring well installed to 48 feet below surface grade.

Soil samples collected and sent for laboratory analysis.
Groundwater encountered at approximately 38 feet below surface grade during soil boring advancement.
End of soil boring at 48 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	Ikos Senior Living 32-11 31st Street, Queens, NY AKRF Project Number: 240854	Groundwater Monitoring Well ID: Sheet 4 of 4	RI-MW-08	Soil Boring ID:	RI-SB-08

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Rotosonic drill rig
Sampling Method:	10' Dedicated plastic liner
Driller:	Eastern Environmental
Weather:	51-67 °F, Fair
Logged by:	B. Quinn, AKRF

Drilling
Start Time: 07:40 | Finish Time: 11:00
Date: 05/12/26

Depth (feet)	Well Construction	Surface Condition: Asphalt	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
46		2" PVC well casing: 0 to 38' below surface grade.	26	Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									

Notes: Groundwater Depth Indicator

Groundwater measured at 36.12 feet below grade in RI-MW-08.

Groundwater monitoring well installed to 48 feet below surface grade.

Soil samples collected and sent for laboratory analysis.

Groundwater encountered at approximately 38 feet below surface grade during soil boring advancement.

End of soil boring at 48 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

32-11 31st Street
Queens, NY
AKRF Project Number: 240854

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 F, Fair
Logged By:	B. Quinn

Soil Boring ID: **RI-SB-09**
Sheet 1 of 2

Drilling
Start Time: 09:00:00 **End Time: 09:30:00**
Date: 2026-04-27

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	30	Brown SAND, some Fine Gravel, trace Asphalt, Concrete, Silt (FILL).	ND	Dry	ND	ND	RI-SB-09_0-0.17_20260427, RI-SB-09_2-4_20260427
2							
3							
4							
5							
6	38	Top 26": Brown SAND, some Fine Gravel, trace Asphalt, Silt (FILL).	ND	Dry	ND	ND	RI-SB-09_4-6_20260427, RI-SB-09_6-8_20260427, RI-SB-09_8-10_20260427
7		Bottom 12": Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
8							
9							
10							
11	40	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-09_10-12_20260427, RI-SB-09_12-14_20260427
12							
13							
14							
15							
16	51	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-09_14-16_20260427, RI-SB-09_16-18_20260427, RI-SB-09_18-20_20260427
17							
18							
19							
20							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater encountered at 32 feet during soil boring installation.
End of soil boring at 33 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

32-11 31st Street Queens, NY AKRF Project Number: 240854	Soil Boring ID: RI-SB-09 Sheet 2 of 2

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 F, Fair
Logged By:	B. Quinn

Drilling
Start Time: 09:00:00 | End Time: 09:30:00
Date: 2026-04-27

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
21	56	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-09_20-22_20260427, RI-SB-09_22-24_20260427, RI-SB-09_24-26_20260427
22							
23							
24							
25							
26	50	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-09_26-28_20260427, RI-SB-09_28-30_20260428
27							
28							
29							
30							
31	36	Light Brown SAND, little Fine Gravel, trace Silt.	ND	Wet	ND	ND	RI-SB-09_30-32_20260428
32							
33							
34							
35							
36							
37							
38							
39							
40							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater encountered at 32 feet during soil boring installation.
End of soil boring at 33 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

32-11 31st Street Queens, NY AKRF Project Number: 240854	Soil Boring ID: RI-SB-10 Sheet 1 of 1

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 F, Fair
Logged By:	B. Quinn

Drilling
Start Time: 10:40:00 | End Time: 11:00:00
Date: 2026-04-27

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1 2 3 4 5	31	Brown SAND, little Fine Gravel, trace Asphalt, Brick, Silt (FILL).	ND	Dry	ND	ND	RI-SB-10_0-0.17_20260427, RI-SB-10_0-2_20260427, RI-SB-10_2-4_20260427
6 7 8 9 10	40	Top 8": Brown SAND, little fine Gravel, trace Silt, Brick (FILL). Bottom 32": Brown SAND, little Silt, fine Gravel.	ND ND	Dry Dry	ND ND	ND ND	RI-SB-10_4-6_20260427, RI-SB-10_6-8_20260427, RI-SB-10_8-10_20260427
11 12 13 14 15							
16 17 18 19 20							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater not encountered during soil boring installation.
End of soil boring at 10 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

32-11 31st Street
Queens, NY
AKRF Project Number: 240854

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	64 F, Mostly cloudy
Logged By:	B. Quinn

Soil Boring ID: **RI-SB-11**

Sheet 1 of 1

Drilling

Start Time: 08:15:00 **End Time: 08:30:00**

Date: 2026-04-28

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	48	Brown SAND, some Fine Gravel, trace Asphalt, Brick, Silt (FILL).	ND	Dry	ND	ND	RI-SB-11_0-0.17_20260428, RI-SB-11_0-2_20260428, RI-SB-11_2-4_20260428, RI-SB-11_4-6_20260428
2							
3							
4							
5							
6	12	Brown SAND, some Fine Gravel, trace Asphalt, Brick, Silt (FILL).	ND	Dry	ND	ND	RI-SB-11_4-6_20260428
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater not encountered during soil boring installation.
End of soil boring at 6 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

32-11 31st Street
Queens, NY
AKRF Project Number: 240854

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	64 F, Mostly cloudy
Logged By:	B. Quinn

Soil Boring ID: **RI-SB-12**

Sheet 1 of 1

Drilling

Start Time: 08:00:00 **End Time: 08:15:00**

Date: 2026-04-28

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	46	Brown SAND, some Fine Gravel, trace Asphalt, Concrete, Silt (FILL).	ND	Dry	0.1	ND	RI-SB-12_0-0.17_20260428, RI-SB-12_2-4_20260428
2							
3							
4							
5							
6	34	Top 30": Brown SAND, little fine Gravel, trace Silt (FILL).	ND	Dry	ND	ND	RI-SB-12_4-6_20260428, RI-SB-12_6-8_20260428, RI-SB-12_8-10_20260428
7							
8		Bottom 4": Light brown SAND, little fine Gravel, trace Silt.	ND	Dry	ND	ND	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater not encountered during soil boring installation.
End of soil boring at 10 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

32-11 31st Street
Queens, NY
AKRF Project Number: 240854

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	67 F, Fair
Logged By:	B. Quinn

Soil Boring ID: **RI-SB-13**
Sheet 1 of 1

Drilling
Start Time: 07:45:00 **End Time: 08:00:00**
Date: 2026-04-27

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	48	Brown SAND, little Fine Gravel, trace Asphalt, Silt (FILL).	ND	Dry	1.7	ND	RI-SB-13_0-0.17_20260427, RI-SB-13_0-2_20260427, RI-SB-13_2-4_20260427,
2							
3							
4							
5							
6	12	Brown SAND, little Fine Gravel, trace Asphalt, Silt (FILL).	ND	Dry	ND	ND	RI-SB-13_4-6_20260427
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater not encountered during soil boring installation.
End of soil boring at 6 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

32-11 31st Street Queens, NY AKRF Project Number: 240854	Soil Boring ID: RI-SB-14 Sheet 1 of 1

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	60 F, Mostly cloudy
Logged By:	B. Quinn

Drilling
Start Time: 07:50:00 | End Time: 08:05:00
Date: 2026-04-29

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	30	Top 18": Brown SAND, some Fine Gravel, trace Asphalt, Brick, Silt (FILL).	ND	Dry	ND	ND	
2							
3		Bottom 12": Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-14_0-0.17_20260429, RI-SB-14_2-4_20260429
4							
5							
6	45	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-14_4-6_20260429
7							
8							
9							
10							
11	45	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
12							
13							
14							
15							
16	24	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-14_15-17_20260429
17							
18							
19							
20							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater not encountered during soil boring installation.
End of soil boring at 17 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

akrf
440 Park Avenue South, 7th Floor
New York, NY 10016

32-11 31st Street
Queens, NY
AKRF Project Number: 240854

Drilling Method:	DPP
Sampling Method:	5' Macrocore
Driller:	Eastern Environmental
Weather:	60 F, Mostly cloudy
Logged By:	B. Quinn

Soil Boring ID: **RI-SB-15**
Sheet 1 of 1

Drilling
Start Time: 08:20:00 **End Time: 09:25:00**
Date: 2026-04-29

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	30	Top 20": Brown SAND, some Fine Gravel, trace Silt (FILL).	ND	Dry	ND	ND	
2							
3		Bottom 10": Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-15_0-0.17_20260429, RI-SB-15_2-4_20260429
4							
5							
6	32	Brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-15_4-6_20260429
7							
8							
9							
10							
11	35	Light brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	
12							
13							
14							
15							
16	43	Light brown SAND, little Fine Gravel, trace Silt.	ND	Dry	ND	ND	RI-SB-15_15-17_20260429
17							
18							
19							
20							

Notes: Soil samples collected and sent for laboratory analysis.
Groundwater not encountered during soil boring installation.
End of soil boring at 19 feet below grade.

PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected NA = not applicable

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

APPENDIX F
GROUNDWATER MONITORING WELL DEVELOPMENT LOGS

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	D. Kawalek, AKRF		**RI-MW-01S**
Project Number:	240854		**Development Date:**	5/13/2026		
Headspace PID:	ND					
Total Well Depth:	37	ft. below top of casing	**Water Column:**	6.25	feet	*= 0.041 * WC for 1" wells
Depth to Water:	30.75	ft. below top of casing	**Well Volume*:**	1.02	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	50	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	27	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	37	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	34	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
15:25	30.75	4,700	16.5	245.7	8.21	8.86	7.5	1072.29	N/A
15:30	30.75	4,700	16.4	288.9	8.55	8.86	30.2	402.48	
15:35	30.75	4,700	16.4	299.4	8.7	8.86	59.6	253.22	
15:40	30.75	4,700	16.4	305.6	9.11	8.85	75.3	132.71	
15:45	30.75	4,700	16.3	327.2	9.41	8.84	100.7	74.26	
15:50	30.75	4,700	16.3	340.7	9.62	8.82	117.5	58.95	
15:55	30.75	4,700	16.2	347.3	9.74	8.83	124	51.23	
16:00	30.75	4,700	16.2	352.1	9.88	8.82	131.4	41.96	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	D. Kawalek, AKRF		**RI-MW-01D**
Project Number:	240854		**Development Date:**	5/13/2026		
Headspace PID:	ND					
Total Well Depth:	43.1	ft. below top of casing	**Water Column:**	12.32	feet	*= 0.041 * WC for 1" wells
Depth to Water:	30.78	ft. below top of casing	**Well Volume*:**	2.0	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	55	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	37	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	47	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	42	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (°C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
14:35	30.78	4600	18.1	185.3	9.38	8.96	100.1	190.44	N/A
14:40	30.8	4600	17.1	175	8.98	8.64	117	83.72	
14:45	30.84	4600	17	578	7.49	8.43	61.5	71.44	
14:50	30.89	4600	17.2	895	6.31	8.2	12.4	65.83	
14:55	30.95	4600	17.1	1172	5.25	8.05	-32.1	57.33	
15:00	31.01	4600	17.2	1090	4.56	7.87	-36.1	47.24	
15:05	31.03	4600	17.3	1142	4.28	7.98	-23.7	45.3	
15:10	31.09	4600	17.3	1188	3.97	8.02	-16.4	44.02	
15:15	31.14	4600	17.4	1131	4.07	8.08	-11.1	17.81	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	B. Quinn, AKRF		**RI-MW-02**
Project Number:	240854		**Development Date:**	4/29/2026		
Headspace PID:	ND					
Total Well Depth:	38.1	ft. below top of casing	**Water Column:**	7.52	feet	*= 0.041 * WC for 1" wells
Depth to Water:	30.58	ft. below top of casing	**Well Volume*:**	1.2	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	55	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	28	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	38	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	32	ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (^{o}C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
13:15	30.58	2300	17.00	0.758	11.95	8.04	96.0	800	N/A
13:30	30.58	2300	16.97	0.09	10.28	7.68	116.0	753	
13:40	30.58	2300	14.61	0	5.26	7.62	160.0	444	
13:50	30.58	2300	14.97	0	7.13	7.43	207.0	115	
14:00	30.58	2300	14.95	0	7.41	7.43	242.0	82.5	
14:10	30.58	2300	15.13	0	6.54	7.96	265.0	72.7	
14:20	30.58	2300	15.90	1.78	9.70	7.92	122.0	59.6	
14:30	30.58	2300	15.87	1.85	9.88	7.38	163.0	49.3	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:** RI-MW-03
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	B. Quinn, AKRF		
Project Number:	240854		**Development Date:**	4/30/2026		
Headspace PID:	ND					
Total Well Depth:	34.58	ft. below top of casing	**Water Column:**	3.45	feet	*= 0.041 * WC for 1" wells
Depth to Water:	31.13	ft. below top of casing	**Well Volume*:**	0.562	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	18	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	25	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	35	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	33	ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (^{o}C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
12:00	31.13	1135	10.8	307.1	4.54	8.42	-78	145.7	Well development began at 11:40. No odors or sheen noted on purge water.
12:10	31.13	1135	9.5	289.9	6.04	8.33	-31.3	77.47	
12:20	31.13	1135	9.2	290.3	5.64	8.21	9.8	48.98	
12:25	31.13	1135	9.2	288.7	6.96	8.19	46.9	49.26	
12:30	31.13	1135	9.2	290.3	6.37	8.18	39.9	34.52	
12:35	31.13	1135	9.4	289.7	6.71	8.17	46.6	17.41	
12:40	31.13	1135	9.4	290	6.21	8.19	47.6	26.42	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	B. Quinn, AKRF		**RI-MW-04**
Project Number:	240854		**Development Date:**	4/30/2026		
Headspace PID:	ND					
Total Well Depth:	35.58	ft. below top of casing	**Water Column:**	5.3	feet	*= 0.041 * WC for 1" wells
Depth to Water:	30.28	ft. below top of casing	**Well Volume*:**	0.86	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	55	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	26	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	36	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	34	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
13:20	30.28	1389	16.7	1206	7.72	7.57	105.4	415.81	N/A
13:30	30.28	1389	16.3	1231	7.77	7.84	97.2	340.81	
13:40	30.28	1389	16.8	1241	6.78	7.65	53.7	325.9	
13:50	30.28	1389	16.9	1240	6.48	7.65	44.7	410.2	
14:00	30.28	1389	17.1	1255	6.34	7.63	57	156.35	
14:10	30.28	1389	17.1	1253	6.61	7.66	78	272.4	
14:20	30.28	1389	17.5	1268	6.23	7.59	71.2	224.4	
14:30	30.28	1389	17.1	1257	7.68	7.65	99.7	168.02	
14:40	30.28	1389	16.9	1253	8.71	7.75	122.4	143.84	
15:00	30.28	1389	17.4	1284	7.34	7.79	160.1	160.85	
15:10	30.28	1389	17.1	1257	7.95	7.75	147.9	132.31	
15:15	30.28	1389	17	1252	7.65	7.67	140.5	64.16	
15:20	30.28	1389	17	1257	7.65	7.66	136.5	49.7	
15:25	30.28	1389	16.8	1249	7.93	7.65	141.5	46.12	
15:30	30.28	1389	16.9	1249	7.87	7.65	144.2	35.13	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	B. Quinn, AKRF		**RI-MW-05S**
Project Number:	240854		**Development Date:**	4/30/2026		
Headspace PID:	ND					
Total Well Depth:	37.41	ft. below top of casing	**Water Column:**	6.62	feet	*= 0.041 * WC for 1" wells
Depth to Water:	30.79	ft. below top of casing	**Well Volume*:**	1.08	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	8	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	27	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	37	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	34	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
11:30	30.79	670	17.0	1092	7.46	9.25	57.2	23.99	N/A
11:40	30.79	670	17.1	1189	7.41	9.15	62.9	34.20	
11:45	30.79	670	17.0	1207	7.37	9.06	68.5	20.10	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:** RI-MW-05D
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	B. Quinn, AKRF		
Project Number:	240854		**Development Date:**	4/30/2026		
Headspace PID:	ND					
Total Well Depth:	49.21	ft. below top of casing	**Water Column:**	20.27	feet	*= 0.041 * WC for 1" wells
Depth to Water:	28.94	ft. below top of casing	**Well Volume*:**	3.30	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	28	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	40	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	50	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	48	ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (^{o}C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
13:15	28.94	1060	18	1092	5.2	8.16	-113	27.98	No odors or sheen noted on purge water. Development began at 12:15.
13:45	28.94	1060	17.9	1189	4.93	7.94	-94.5	28.78	
13:50	28.94	1060	18	1207	5.11	7.87	-88.5	12.73	
13:55	28.94	1060	18.1	1205	5.36	7.84	-89.4	9.49	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	B. Quinn, AKRF		**RI-MW-06**
Project Number:	240854		**Development Date:**	5/1/2026		
Headspace PID:	ND					
Total Well Depth:	37.02	ft. below top of casing	**Water Column:**	7.44	feet	*= 0.041 * WC for 1" wells
Depth to Water:	29.58	ft. below top of casing	**Well Volume*:**	1.21	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	40	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	29	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	39	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	35	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
11:50	34.51	594	19	1662	6.69	7.82	248.8	69.34	
12:00	34.51	594	18.9	1676	7.01	7.93	245.7	68.41	
12:10	34.51	594	18.4	1628	7.59	7.86	242.8	62.47	
12:20	36.41	594	18	1676	7.7	8.09	231.4	81.48	
12:35	36.41	594	18.1	1689	7.05	8.02	215.2	131.4	
12:50	36.41	594	19.6	1681	7.75	7.93	208.4	85.42	
13:35	36.51	594	17.8	1682	7.98	7.69	216.4	59.7	N/A
14:20	36.51	594	18.1	1705	7.6	8.2	217.1	136.81	
15:15	36.51	594	18.2	1690	7.52	7.84	202.4	82.45	
15:20	36.55	594	18	1670	7.89	7.74	199.5	37.64	
15:25	36.55	594	17.9	1678	7.57	7.8	197.2	38.25	
15:30	36.55	594	18.2	1683	7.27	7.71	194.6	27.88	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	B. Quinn, AKRF		**RI-MW-07**
Project Number:	240854		**Development Date:**	4/29/2026		
Headspace PID:	ND					
Total Well Depth:	39.7	ft. below top of casing	**Water Column:**	4.75	feet	*= 0.041 * WC for 1" wells
Depth to Water:	34.95	ft. below top of casing	**Well Volume*:**	0.77	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	50	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	30	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	40	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	35	ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (^{o}C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
7:30	34.95	1890	16.9	0.98	15.89	8.75	128	641	N/A
7:40	34.95	1890	17.17	0.973	15.61	8.51	131	304	
7:50	34.95	1890	17.2	0.896	14.4	8.45	135	281	
8:00	34.95	1890	17.24	0.889	14.61	8.13	135	190	
8:10	34.95	1890	17.38	0.854	10.60	7.60	153	125	
8:20	34.95	1890	17.35	0.842	11.05	7.87	164	190	
8:30	34.95	1890	17.30	0.84	10.51	7.69	169	92.6	
8:40	34.95	1890	18.35	0.83	10.37	7.77	174	63.2	
8:50	34.95	1890	19.21	0.798	10.46	7.25	179	55.7	
9:00	34.95	1890	19.79	0.786	9.33	7.68	171	48.3	
9:10	34.95	1890	19.71	0.828	10.32	7.70	175	45.8	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Development Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Developed By:**	D. Kawalek, AKRF		**RI-MW-08**
Project Number:	240854		**Development Date:**	5/13/2026		
Headspace PID:	ND					
Total Well Depth:	48	ft. below top of casing	**Water Column:**	16.88	feet	*= 0.041 * WC for 1" wells
Depth to Water:	31.12	ft. below top of casing	**Well Volume*:**	2.75	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	25	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	38	ft. below top of casing	**Well Diameter:**	2	inches	
Depth to Bottom of Screen:	48	ft. below top of casing	**Purging Device:**	Waterra Pump		
Approximate Pump Intake:	43	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
13:10	31.15	1357	19.4	319.1	2.01	9.08	-157.9	132.88	N/A
13:15	31.15	1357	18.8	402	2.48	9.02	-142.3	121.43	
13:20	31.18	1357	18.7	471	2.8	8.93	-120.6	104.69	
13:25	31.22	1357	18.7	589	3.31	8.71	-107.9	83.7	
13:30	31.25	1357	18.7	664	3.66	8.55	7-3.4	63.22	
13:55	31.37	1357	18.9	962	4.27	8.18	-43.2	39.79	
14:00	31.4	1357	18.6	982	4.14	8.15	-38.9	23.15	
14:05	31.44	1357	18.6	976	4.02	8.07	-35.6	28.16	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

APPENDIX G
GROUNDWATER MONITORING WELL ELEVATION SURVEY

MONITORING WELL LOCATIONS



MONITORING WELL LOCATIONS MAY 20, 2026					
Northing	Easting	Latitude (Dec Deg)	Longitude (Dec Deg)	Elevation	Description
216,639.47	1,005,003.53	N40.76128°	W73.92508°	51.97'	MW-01D GROUND
216,638.99	1,005,003.05	N40.76128°	W73.92509°	51.69'	MW-01D PVC
216,640.11	1,005,005.52	N40.76128°	W73.92508°	51.78'	MW-01S GROUND
216,639.95	1,005,005.08	N40.76128°	W73.92508°	51.68'	MW-01S PVC
216,718.73	1,004,877.10	N40.76150°	W73.92554°	50.16'	MW-02 COVER
216,718.90	1,004,876.63	N40.76150°	W73.92554°	49.84'	MW-02 PVC
216,679.08	1,004,994.55	N40.76139°	W73.92512°	51.81'	MW-03 COVER
216,678.89	1,004,994.26	N40.76139°	W73.92512°	51.58'	MW-03 PVC
216,716.92	1,004,907.08	N40.76149°	W73.92543°	50.63'	MW-04 GROUND
216,717.13	1,004,906.72	N40.76149°	W73.92543°	50.32'	MW-04 PVC
216,668.37	1,004,879.65	N40.76136°	W73.92553°	51.93'	MW-05D GROUND
216,668.79	1,004,879.76	N40.76136°	W73.92553°	51.59'	MW-05D PVC
216,669.08	1,004,882.37	N40.76136°	W73.92552°	52.16'	MW-05S GROUND
216,669.48	1,004,882.62	N40.76136°	W73.92552°	51.95'	MW-05S PVC
216,612.33	1,004,821.38	N40.76120°	W73.92574°	51.95'	MW-06 GROUND
216,612.02	1,004,821.30	N40.76120°	W73.92574°	51.61'	MW-06 PVC
216,587.74	1,004,860.04	N40.76114°	W73.92560°	54.42'	MW-07 COVER
216,587.50	1,004,859.74	N40.76114°	W73.92560°	54.17'	MW-07 PVC
216,563.08	1,004,858.94	N40.76107°	W73.92561°	55.60'	MW-08 GROUND
216,562.96	1,004,858.56	N40.76107°	W73.92561°	55.32'	MW-08 PVC

NOTES:

- HORIZONTAL LOCATIONS ARE IN THE NORTH AMERICAN DATUM OF 1983 (NAD83)- NEW YORK LONG ISLAND ZONE
- ELEVATIONS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SURVEYED: MAY 20, 2026

SCALE: 1" = 30'

DRAWN BY: JJM

BLOCK: 611
LOT: 25

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SURVEY OF PROPERTY SITUATED IN:

31-07 31ST STREET

BOROUGH OF QUEENS
COUNTY OF QUEENS
CITY OF NEW YORK
STATE OF NEW YORK

APPENDIX H
GROUNDWATER SAMPLING LOGS

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living	**Client:**	Ikos Senior Living LLC	**Well ID:**	
Project Location:	32-11 31st Street, Queens, NY	**Sampled By:**	M. Balletta, AKRF		**RI-MW-01S**
Project Number:	240854	**Sampling Date:**	5/20/2026		
Headspace PID:	ND	**Sampling Time:**	10:51:00 AM		
Total Well Depth:	36.46 ft. below top of casing	**Water Column:**	4.86 feet		*= 0.041 * WC for 1" wells
Depth to Water:	31.6 ft. below top of casing	**Well Volume*:**	0.79 gallons		*= 0.163 * WC for 2" wells
Product Thickness:	ND ft. below top of casing	**Volume Purged:**	0.7 gallons		*= 0.653 * WC for 4" wells
Depth to Top of Screen:	27 ft. below top of casing	**Well Diameter:**	2 inches		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	37 ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	34.03 ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
10:30	32.62	100	15.3	1.217	0.38	7.45	-106.4	2.43	No odors/sheen observed in purge water.
10:35	32.62	100	15.5	1.272	0.4	7.43	-106.2	2.41	
10:40	32.62	100	16.3	1.255	0.49	7.44	-106.7	0.82	
10:45	32.62	100	16.3	1.264	0.6	7.46	-106.3	0.72	
10:50	32.62	100	16.4	1.264	0.72	7.41	-104.8	0.77	
	Post Sampling Reading								
11:20	32.62	100	16.5	1.27	0.77	7.49	-105.6	1.23	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Sampled By:**	M. Balletta, AKRF		**RI-MW-01D**
Project Number:	240854		**Sampling Date:**	5/20/2026		
Headspace PID:	ND		**Sampling Time:**	9:41:00 AM		
Total Well Depth:	46.10	ft. below top of casing	**Water Column:**	14.41	feet	*= 0.041 * WC for 1" wells
Depth to Water:	31.69	ft. below top of casing	**Well Volume*:**	2.35	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	1	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	35	ft. below top of casing	**Well Diameter:**	2	inches	The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	45	ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	38.33	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (°C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
9:05	32.21	100	17	1.146	2.69	7.91	-89	50.87	No odors/sheen observed in purge water.
9:10	32.21	100	16.3	1.140	0.69	7.73	-162.9	24.15	
9:15	32.21	100	16.1	1.140	0.63	7.73	-157.3	3.01	
9:20	32.21	100	16.2	1.140	0.59	7.72	-172.7	4.15	
9:25	32.21	100	16.1	1.135	0.30	7.72	-184.5	9.16	
9:30	32.21	100	17.2	1.167	0.26	7.73	-192.9	20.5	
9:35	32.21	100	17.7	1.181	0.24	7.72	-195.6	24.2	
9:40	32.21	100	18.0	1.193	0.23	7.72	-200.1	29.44	
	Post Sampling Reading								
9:50	32.21	100	18.2	1.196	0.27	7.73	-204.7	22.1	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Sampled By:**	M. Balletta, AKRF		**RI-MW-02**
Project Number:	240854		**Sampling Date:**	5/13/2026		
Headspace PID:	0.6 ppm		**Sampling Time:**	12:06:00 PM		
Total Well Depth:	37.15	ft. below top of casing	**Water Column:**	7.24	feet	*= 0.041 * WC for 1" wells
Depth to Water:	29.91	ft. below top of casing	**Well Volume*:**	1.18	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	0.8	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	28	ft. below top of casing	**Well Diameter:**	2	inches	The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	38	ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	33.53	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
11:40	29.95	100	18	1.346	5.92	7.54	249	4.33	
11:45	29.95	100	18.5	1.351	5.39	7.42	251	2.30	
11:50	29.95	100	18.4	1.334	5.27	7.4	250.8	2.26	
11:55	29.95	100	18.3	1.317	5.19	7.38	250.1	2.15	No odors/sheen observed.
12:00	29.95	100	18.5	1.324	5.17	7.37	248.3	1.10	
12:05	29.95	100	18.6	1.327	5.10	7.36	245.2	1.15	
	Post Sampling Reading								
12:30	29.95	100	20.9	1.463	5.27	7.47	230.5	9.12	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living	**Client:**	Ikos Senior Living LLC	**Well ID:**	
Project Location:	32-11 31st Street, Queens, NY	**Sampled By:**	M. Balletta, AKRF		
Project Number:	240854	**Sampling Date:**	5/13/2026		**RI-MW-03**
Headspace PID:	8.2 ppm	**Sampling Time:**	4:00:00 PM		
Total Well Depth:	34.56 ft. below top of casing	**Water Column:**	3.28 feet		*= 0.041 * WC for 1" wells
Depth to Water:	31.28 ft. below top of casing	**Well Volume*:**	0.53 gallons		*= 0.163 * WC for 2" wells
Product Thickness:	ND ft. below top of casing	**Volume Purged:**	2 gallons		*= 0.653 * WC for 4" wells
Depth to Top of Screen:	25 ft. below top of casing	**Well Diameter:**	2 inches		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	35 ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	32.92 ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
14:50	31.28	100	13.4	0.858	1.55	7.78	191.2	34.50	No odors/sheen observed in purge water.
14:55	31.29	100	12.5	0.759	1.14	7.75	140.4	15.59	
15:00	31.29	100	12.3	0.660	0.97	7.77	110.7	7.70	
15:05	31.29	100	12.2	0.642	0.94	7.78	99.2	6.11	
15:10	31.29	100	12.2	0.630	0.85	7.79	70	4.43	
15:15	31.29	100	12.2	0.611	0.79	7.80	56.5	4.49	
15:20	31.29	100	12.1	0.592	0.78	7.8	42	3.34	
15:25	31.29	100	12.0	0.580	0.74	7.81	19.5	2.70	
15:30	31.29	100	12	0.579	0.71	7.81	9.6	2.00	
15:35	31.29	100	12.1	0.571	0.70	7.81	2.0	2.00	
15:40	31.29	100	12.1	0.570	0.67	7.81	-4.0	1.47	
15:45	31.29	100	12.2	0.570	0.68	7.81	-8.1	0.63	
15:50	31.29	100	12.7	0.573	0.66	7.80	-14.3	0.49	
15:55	31.29	100	12.8	0.574	0.66	7.80	-17.7	0.80	
	Post Sampling Reading								
16:30	31.29	100	11.4	0.569	2.26	7.96	-14.6	0.16	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living	**Client:**	Ikos Senior Living LLC	**Well ID:**	
Project Location:	32-11 31st Street, Queens, NY	**Sampled By:**	M. Balletta, AKRF		
Project Number:	240854	**Sampling Date:**	5/13/2026		**RI-MW-04**
Headspace PID:	0.4 ppm	**Sampling Time:**	1:36:00 PM		
Total Well Depth:	35.7 ft. below top of casing	**Water Column:**	5.41 feet		*= 0.041 * WC for 1" wells
Depth to Water:	30.29 ft. below top of casing	**Well Volume*:**	0.88 gallons		*= 0.163 * WC for 2" wells
Product Thickness:	ND ft. below top of casing	**Volume Purged:**	0.8 gallons		*= 0.653 * WC for 4" wells
Depth to Top of Screen:	25 ft. below top of casing	**Well Diameter:**	2 inches		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	35 ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	33 ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
13:10	30.41	100	18.1	1.412	5.88	7.45	263.8	45.9	No odors/sheen observed in purge water.
13:15	30.41	100	18.1	1.415	5.72	7.40	260.1	42.19	
13:20	30.41	100	18	1.417	5.66	7.37	256.6	40.18	
13:25	30.41	100	18.0	1.412	5.58	7.35	235.1	32.25	
13:30	30.41	100	18.1	1.408	5.53	7.35	248.9	26.61	
13:35	30.41	100	18.0	1.399	5.52	7.35	245.1	20.59	
	Post Sampling Reading								
14:05	30.41	100	18.1	1.4	5.78	7.44	224.5	6.28	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living	**Client:**	Ikos Senior Living LLC	**Well ID:**	
Project Location:	32-11 31st Street, Queens, NY	**Sampled By:**	M. Balletta, AKRF		**RI-MW-05S**
Project Number:	240854	**Sampling Date:**	5/20/2026		
Headspace PID:	5.9 ppm	**Sampling Time:**	1:36:00 PM		
Total Well Depth:	37.6 ft. below top of casing	**Water Column:**	5.53 feet		*= 0.041 * WC for 1" wells
Depth to Water:	32.07 ft. below top of casing	**Well Volume*:**	0.90 gallons		*= 0.163 * WC for 2" wells
Product Thickness:	ND ft. below top of casing	**Volume Purged:**	0.5 gallons		*= 0.653 * WC for 4" wells
Depth to Top of Screen:	27 ft. below top of casing	**Well Diameter:**	2 inches		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	37 ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	34.8 ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
9:35	32.07	100	17.7	0.799	1.17	7.92	34.5	33.53	No odors/sheen observed observed on purge water.
9:40	32.07	100	17.6	0.804	0.8	7.82	39.3	12.78	
9:45	32.07	100	17.6	0.807	0.79	7.76	39.6	10.95	
9:50	32.07	100	17.8	0.814	1.06	7.74	35.6	13.99	
9:55	32.07	100	17.9	0.811	1.11	7.74	33.6	15.01	
	Post Sampling Reading								
10:40	32.07	100	17.9	0.773	3.32	7.88	38.5	9.55	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living	**Client:**	Ikos Senior Living LLC	**Well ID:**	
Project Location:	32-11 31st Street, Queens, NY	**Sampled By:**	M. Balletta, AKRF		
Project Number:	240854	**Sampling Date:**	5/20/2026	**RI-MW-05D**	
Headspace PID:	5.4 ppm	**Sampling Time:**	1:36:00 PM		
Total Well Depth:	49.5 ft. below top of casing	**Water Column:**	17.9 feet	*= 0.041 * WC for 1" wells	
Depth to Water:	31.6 ft. below top of casing	**Well Volume*:**	2.92 gallons	*= 0.163 * WC for 2" wells	
Product Thickness:	ND ft. below top of casing	**Volume Purged:**	2 gallons	*= 0.653 * WC for 4" wells	
Depth to Top of Screen:	40 ft. below top of casing	**Well Diameter:**	2 inches	The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	
Depth to Bottom of Screen:	50 ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	44.8 ft. below top of casing				

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (^{o}C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	**Comments** (problems, odor, sheen)
11:55	31.6	100	18.2	1.415	1.4	7.63	0.8	49.6	No odors/sheen observed on purge water.
12:00	31.6	100	29.7	1.496	0.92	7.59	-26.4	93.99	
12:05	31.6	100	29.8	1.508	0.88	7.55	-47.9	127.46	
12:10	31.6	100	29.8	1.528	0.77	7.56	-48.1	191.9	
12:15	31.6	100	28.1	1.515	2.16	7.63	2.4	8.95	
12:20	31.6	100	26.3	1.464	1.26	7.55	-24.8	8.45	
12:25	31.6	100	25.6	1.425	0.94	7.49	-60.6	18.42	
12:30	31.6	100	37.6	1.855	2.46	7.73	55.4	318.67	
13:20	31.6	100	31.2	1.725	2.04	7.53	32	10.62	
13:25	31.6	100	29.5	1.583	1.30	7.5	-4.1	11.81	
13:30	31.6	100	28.1	1.528	1.10	7.44	-24.5	29.16	
13:35	31.6	100	22.4	1.512	1.03	7.44	-38.4	34.8	
13:40	31.6	100	27.8	1.505	1.01	7.44	-42.6	43.94	
13:45	31.6	100	27.8	1.505	1.01	7.44	-42.6	93.94	
13:50	31.6	100	27.1	1.504	1.02	7.44	-44.1	17.93	
13:55	31.6	100	27.1	1.504	1.00	7.44	-44.0	20.65	
	Post Sampling Reading								
14:00	31.6	100	27.0	1.499	1.00	7.44	-43.8	39.89	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes: ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living			**Client:**	Ikos Senior Living LLC			**Well ID:**	
Project Location:	32-11 31st Street, Queens, NY			**Sampled By:**	M. Balletta, AKRF			**RI-MW-06**	
Project Number:	240854			**Sampling Date:**	5/13/2026				
Headspace PID:	1.7 ppm			**Sampling Time:**	10:00:00 AM				
Total Well Depth:	38.92	ft. below top of casing		**Water Column:**	6.13	feet		*= 0.041 * WC for 1" wells	
Depth to Water:	32.79	ft. below top of casing		**Well Volume*:**	0.999	gallons		*= 0.163 * WC for 2" wells	
Product Thickness:	ND	ft. below top of casing		**Volume Purged:**	4	gallons		*= 0.653 * WC for 4" wells	
Depth to Top of Screen:	30	ft. below top of casing		**Well Diameter:**	2	inches		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	
Depth to Bottom of Screen:	40	ft. below top of casing		**Purging Device:**	QED Bladder Pump				
Approximate Pump Intake:	35.95	ft. below top of casing							

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
8:48	32.82	100	16.8	1.021	6.94	7.37	150	15.07	No odors/sheen observed in purge water. Blind duplicate and MS/MSD collected from RI-MW-06.
9:10	32.82	100	16.8	1.024	6.13	7.33	161.2	6.82	
9:16	32.82	100	17	1.037	6.12	7.33	160.5	8.67	
9:23	32.82	100	17.1	1.046	6.10	7.34	160.3	7.80	
9:28	32.82	100	17.3	1.065	6.04	7.34	159.8	9.98	
9:33	32.82	100	17.4	1.062	6.00	7.34	155.5	11.94	
9:38	32.82	100	17.4	1.063	6.00	7.34	157.5	14.08	
9:43	32.82	100	17.5	1.055	5.99	7.36	159.9	11.17	
9:50	32.82	100	17.6	1.054	6.02	7.36	158.5	11.35	
	Post Sampling Reading								
13:24	32.82	100	17.8	1.217	7.5	7.79	127.12	8.21	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes: ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

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440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living		**Client:**	Ikos Senior Living LLC		**Well ID:**
Project Location:	32-11 31st Street, Queens, NY		**Sampled By:**	M. Balletta, AKRF		**RI-MW-07**
Project Number:	240854		**Sampling Date:**	5/13/2026		
Headspace PID:	0.6 ppm		**Sampling Time:**	9:56:00 AM		
Total Well Depth:	37.95	ft. below top of casing	**Water Column:**	2.92	feet	*= 0.041 * WC for 1" wells
Depth to Water:	35.03	ft. below top of casing	**Well Volume*:**	0.48	gallons	*= 0.163 * WC for 2" wells
Product Thickness:	ND	ft. below top of casing	**Volume Purged:**	0.8	gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	30	ft. below top of casing	**Well Diameter:**	2	inches	The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Depth to Bottom of Screen:	40	ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	36.49	ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (^{o}C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
9:30	35.12	100	16.3	1.349	5.12	7.33	165.1	44.98	No odors/sheen observed in purge water.
9:35	35.12	100	16.5	1.364	5.03	7.35	176.9	24.77	
9:40	35.12	100	16.9	1.365	5	7.35	181.8	23.00	
9:45	35.12	100	17.0	1.36	5.12	7.35	190.4	31.00	
9:50	35.12	100	16.9	1.358	5.09	7.34	193.8	19.04	
9:55	35.12	100	17.0	1.359	5.09	7.34	196.4	11.44	
	Post Sampling Reading								
10:30	35.12	100	16.8	1.306	5.78	7.49	194.9	14.05	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes:

ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter

Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

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Groundwater Monitoring Well Sampling Log

Project Name:	Ikos Senior Living	**Client:**	Ikos Senior Living LLC	**Well ID:**	
Project Location:	32-11 31st Street, Queens, NY	**Sampled By:**	M. Balletta, AKRF		
Project Number:	240854	**Sampling Date:**	5/20/2026	**RI-MW-08**	
Headspace PID:	ND	**Sampling Time:**	12:46:00 PM		
Total Well Depth:	47.47 ft. below top of casing	**Water Column:**	11.35 feet	*= 0.041 * WC for 1" wells	
Depth to Water:	36.12 ft. below top of casing	**Well Volume*:**	1.85 gallons	*= 0.163 * WC for 2" wells	
Product Thickness:	ND ft. below top of casing	**Volume Purged:**	1.32 gallons	*= 0.653 * WC for 4" wells	
Depth to Top of Screen:	38 ft. below top of casing	**Well Diameter:**	2 inches	The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	
Depth to Bottom of Screen:	48 ft. below top of casing	**Purging Device:**	QED Bladder Pump		
Approximate Pump Intake:	42.7 ft. below top of casing				

Time	**Depth to Water** (ft.)	**Purge Rate** (ml/min)	**Temperature** (°C)	**Conductivity** (mS/cm)	**Dissolved Oxygen** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
11:55	36.46	100	18.1	1.25	1.69	7.77	-78.8	19.34	No odors/sheen observed in purge water.
12:00	36.46	100	18.2	1.251	1.2	7.62	-60.3	20.11	
12:05	36.46	100	18.2	1.253	0.53	7.51	-38.3	4.02	
12:10	36.46	100	18.1	1.25	0.48	7.49	-51.2	3.97	
12:15	36.46	100	18.3	1.251	0.41	7.50	-76.8	6.18	
12:20	36.46	100	18.4	1.254	0.34	7.51	-94.9	7.44	
12:25	36.46	100	18.4	1.253	0.30	7.51	-102.4	10.12	
12:30	36.46	100	18.4	1.253	0.26	7.52	-113.9	11.05	
12:35	36.46	100	18.48	1.252	0.24	7.51	-118.1	13.63	
12:40	36.46	100	18.4	1.253	0.23	7.51	-122.4	14.77	
12:45	36.46	100	18.2	1.251	0.22	7.51	-125.6	16.88	
	Post Sampling Reading								
13:15	36.46	100	18.1	1.255	0.2	7.52	-127.2	15.19	
Stabilization Criteria:				**+/- 3% mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	

Notes: ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - miligrams per liter
Groundwater samples analyzed for TCL VOCs, TCL SVOCs (plus 1,4-dioxane), PCBs, pesticides, total and dissolved TAL metals, and PFAS.

APPENDIX I
TEMPORARY SOIL VAPOR POINT CONSTRUCTION AND VAPOR SAMPLING LOGS

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Soil Vapor Sample Log

Project Name:	Ikos Senior Living	**Point Installed By:**	Eastern Environmental Solutions, Inc.
Project Location:	32-11 31st St, Queens, NY	**Installation Method:**	Direct Push Probe
Project Number:	240854	**Sampled By:**	B.Quinn, AKRF
Client:	Ikos Senior Living LLC	**Date:**	4/29/2026
		Weather:	Mostly cloudy, 54-60 ˚F

Sample Setup

Vapor Point Depth:	336	Inches	**Purge Time:**	12 min	
Tubing Volume:	7.63	In^3	**Purge Volume:**	2.24 L	
Purging Pump:	Gilair		**Purged Vapor PID:**	1.4	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	ND	%

Sample Identification

Soil Vapor Point ID:	RI-SV-01	**SUMMA® Canister ID:**	1336
Flow Controller ID:	4506	**Soil Vapor Sample ID:**	RI-SV-01_20260429

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	9:35	-29	ND	N/A
Time Stopped:	11:30	-6	ND	N/A

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample RI-SV-01_20260429 collected in a 6-L SUMMA® canister using a 2-hour flow controller.			

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Soil Vapor Sample Log

Project Name:	Ikos Senior Living	**Point Installed By:**	Eastern Environmental Solutions, Inc.
Project Location:	32-11 31st St, Queens, NY	**Installation Method:**	Direct Push Probe
Project Number:	240854	**Sampled By:**	G. De Marzo, AKRF
Client:	Ikos Senior Living LLC	**Date:**	4/29/2026
		Weather:	Mostly cloudy, 54-60 ˚F

Sample Setup

Vapor Point Depth:	336	Inches	**Purge Time:**	12 min	
Tubing Volume:	7.63	In^3	**Purge Volume:**	2.23 L	
Purging Pump:	Gilair		**Purged Vapor PID:**	1.7	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0.05	%

Sample Identification

Soil Vapor Point ID:	RI-SV-02	**SUMMA® Canister ID:**	3015
Flow Controller ID:	A437011	**Soil Vapor Sample ID:**	RI-SV-02_20260429

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	12:06	-28	ND	N/A
Time Stopped:	14:00	-12	ND	N/A

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample RI-SV-02_20260429 collected in a 6-L SUMMA® canister using a 2-hour flow controller.			

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Soil Vapor Sample Log

Project Name:	Ikos Senior Living		**Point Installed By:**	Eastern Environmental Solutions, Inc.	
Project Location:	32-11 31st St, Queens, NY		**Installation Method:**	Direct Push Probe	
Project Number:	240854		**Sampled By:**	G. De Marzo, AKRF	
Client:	Ikos Senior Living LLC		**Date:**	4/29/2026	
			Weather:	Mostly cloudy, 54-60 ˚F	
Sample Setup					
Vapor Point Depth:	336	Inches	**Purge Time:**	12 min	
Tubing Volume:	7.63	In^3	**Purge Volume:**	2.2 L	
Purging Pump:	Gilair		**Purged Vapor PID:**	2.8	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	ND	%
Sample Identification					
Soil Vapor Point ID:	RI-SV-03		**SUMMA® Canister ID:**	1534	
Flow Controller ID:	3955		**Soil Vapor Sample ID:**	RI-SV-03_20260429	

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	10:00	-28	ND	N/A
Time Stopped:	12:00	-6	ND	N/A

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample RI-SV-03_20260429 collected in a 6-L SUMMA® canister using a 2-hour flow controller.			

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Soil Vapor Sample Log

Project Name:	Ikos Senior Living	**Point Installed By:**	Eastern Environmental Solutions, Inc.
Project Location:	32-11 31st St, Queens, NY	**Installation Method:**	Direct Push Probe
Project Number:	240854	**Sampled By:**	G. De Marzo, AKRF
Client:	Ikos Senior Living LLC	**Date:**	4/29/2026
		Weather:	Mostly cloudy, 54-60 ˚F

Sample Setup

Vapor Point Depth:	336	Inches	**Purge Time:**	12 min	
Tubing Volume:	7.63	In^3	**Purge Volume:**	2.3 L	
Purging Pump:	Gilair		**Purged Vapor PID:**	1.9	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	0.05	%

Sample Identification

Soil Vapor Point ID:	RI-SV-04	**SUMMA® Canister ID:**	1437
Flow Controller ID:	5226	**Soil Vapor Sample ID:**	RI-SV-04_20260429

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	10:20	-30	ND	N/A
Time Stopped:	12:25	-8	ND	N/A

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample RI-SV-04_20260429 collected in a 6-L SUMMA® canister using a 2-hour flow controller.			

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Soil Vapor Sample Log

Project Name:	Ikos Senior Living	**Point Installed By:**	Eastern Environmental Solutions, Inc.
Project Location:	32-11 31st St, Queens, NY	**Installation Method:**	Direct Push Probe
Project Number:	240854	**Sampled By:**	G. De Marzo, AKRF
Client:	Ikos Senior Living LLC	**Date:**	4/29/2026
		Weather:	Mostly cloudy, 54-60 ˚F

Sample Setup

Vapor Point Depth:	336	Inches	**Purge Time:**	13 min	
Tubing Volume:	7.63	In^3	**Purge Volume:**	2.3 L	
Purging Pump:	Gilair		**Purged Vapor PID:**	1.8	ppm
Pump Flow Rate*:	0.2	L/min	**Helium Concentration:**	ND	%

Sample Identification

Soil Vapor Point ID:	RI-SV-05	**SUMMA® Canister ID:**	1157
Flow Controller ID:	A594002	**Soil Vapor Sample ID:**	RI-SV-05_20260429

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	10:45	-29	ND	N/A
Time Stopped:	13:48	-7	ND	N/A

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute	in/Hg = inches of mercury
	Soil vapor sample RI-SV-05_20260429 collected in a 6-L SUMMA® canister using a 2-hour flow controller.			

APPENDIX J
LABORATORY DATA DELIVERABLES AND DATA USABILITY SUMMARY REPORTS (DUSRS)

APPENDIX K
INVESTIGATION-DERIVED WASTE (IDW) DISPOSAL MANIFESTS

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
			631-586-5900	NHWM 229639 A

GENERATOR

5. Generator's Name and Mailing Address

IKOS SENIOR LIVING LLC
48-02 25TH AVENUE, SUITE 400
ASTORIA, NY 11106

Generator's Phone:

Generator's Site Address (if different than mailing address)

32-11 31ST STREET
QUEENS, NY 11106

6. Transporter 1 Company Name — U.S. EPA ID Number

AARCO ENVIRONMENTAL SERVICES CORP. — NYR000107326

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

DALE TRANSFER CORP.
129 DALE STREET, WEST BABYLON NY 11704 — N/A

Facility's Phone: 631-393-2882

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED LIQUIDS (GROUNDWATER)	012	DM	6000	P	
2.	NON-REGULATED SOLIDS (SOIL CUTTINGS)	010	DM	5000		
3.						
4.						

13. Special Handling Instructions and Additional Information

1. 2025-1901 (.012 x 559)
2. 2025-1900 (.010 x 559)

JOB # 229639 TRUCK B457

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: (AS Agent For Generator) DEW Kawater — Signature — Month 7 Day 8 Year 26

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Cesar Liriano — Signature — Month 7 Day 8 Year 26

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Armando Sanchez — Signature — Month 7 Day 8 Year 26

DESIGNATED FACILITY TO GENERATOR

Printed in USA by GC Labels
1-800-997-6966

Reorder Part# MANIFEST-C6NHW
913-897-6966

APPENDIX F
QUALITY ASSURANCE PROJECT PLAN

IKOS SENIOR LIVING

32-11 31ST STREET
QUEENS, NEW YORK

Quality Assurance Project Plan

NYSDEC BCP Site No.: C241290
AKRF Project Number: 240854

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York 12233

Prepared On Behalf Of:

Ikos Senior Living LLC
48-02 25th Avenue, Suite 400
Astoria, NY 11103

Prepared by:

AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, New York 10016
212-696-0670

JULY 2026

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Figure 1 – Site Location

ATTACHMENTS

Attachment A – Resumes for QA/QC Officer, Project Manager, and Field Team Leader

1.0 INTRODUCTION

This Quality Assurance Project Plan (QAPP) describes the protocols and procedures that will be followed during implementation of the Remedial Action Work Plan (RAWP) for the Ikos Senior Living site located at 32-11 31st Street in the Astoria section of the Queens, New York, hereafter referred to as the "Site." The Site is identified by the City of New York as Borough of the Queens, Block 611, Lot 25. The objective of this QAPP is to provide for Quality Assurance (QA) and maintain Quality Control (QC) of environmental investigative and sampling activities conducted under the New York State Department of Environmental Conservation (NYSDEC) oversight in the Brownfield Cleanup Program (BCP) (BCP Site No. C241290). Adherence to this QAPP will ensure that defensible data will be obtained during environmental work at the Site. A location Site map is provided on Figure 1.

2.0 PROJECT TEAM

The project team will be drawn from AKRF professional and technical personnel, and AKRF's subcontractors. All field personnel and subcontractors will have completed a 40-hour training course and updated 8-hour refresher course that meet the Occupational Safety and Health Administration (OSHA) requirements of 29 CFR Part 1910. The following sections describe the key project personnel and their responsibilities.

2.1 Remedial Engineer

Ms. Rebecca Kinal P.E. will serve as the Remedial Engineer (RE) for the RAWP. As the RE, Ms. Kinal will oversee the design and implementation of all Institutional Controls (ICs) and Engineering Controls (ECs) at the Site. Ms. Kinal's resume is included in Attachment A.

2.2 Project Director

Ms. Deborah Shapiro, QEP, will serve as project director and will be responsible for the general oversight of all aspects of the project, including scheduling, budgeting, data management, and decision-making regarding the field program. The project director will communicate regularly with all members of the AKRF project team and the New York State Department of Environmental Conservation (NYSDEC) to ensure a smooth flow of information between involved parties. Ms. Shapiro's resume is included in Attachment A.

2.3 Quality Assurance/Quality Control Officer

Mr. Marc Godick, LEP, will serve as the quality assurance/quality control (QA/QC) officer and will be responsible for adherence to the QAPP including QA/QC. The QA/QC officer will review the procedures with all personnel prior to commencing any fieldwork and will conduct periodic Site visits to assess implementation of the procedures. The QA/QC officer will also be responsible for reviewing the Data Usability Summary Reports (DUSRs) prepared by a third-party data validator for soil, groundwater, and soil vapor analytical results. Mr. Godick's resume is included in Attachment A.

2.4 Project Manager

The project manager will be responsible for directing and coordinating all elements of the RAWP. The project manager will prepare reports and participate in meetings with the Site owner/Volunteer, and/or the NYSDEC. Adrianna Bosco will serve as the project manager for the RAWP. Benjamin Hess will serve as the alternate project manager for the RAWP. Ms. Bosco's and Mr. Hess's resumes are included in Attachment A.

2.5 Field Team Leader, Field Technician, Site Safety Officer (SSO), and Alternates

The field team leader will be responsible for supervising the daily sampling and health and safety activities in the field and will ensure adherence to the work plan and Health and Safety Plan (HASP), included as Appendix G of the RAWP. The field team leader will also act as the field technician and Site Safety Officer (SSO) and will report to the project manager or project manager alternate on a regular basis regarding daily progress and any deviations from the work plan. The field team leader will be a qualified and responsible person able to act professionally and promptly during environmental work at the Site. Carey Parker will be the field team leader. The field team leader alternate is Giovanni De Marzo of AKRF. Ms. Parker's and Mr. De Marzo's resumes are included in Attachment A.

2.6 Laboratory Quality Assurance/Quality Control (QA/QC) Officer

The laboratory QA/QC officer will be responsible for quality control procedures and checks in the laboratory and ensuring adherence to laboratory protocols. The QA/QC officer will track the movement of samples from the time they are checked in at the laboratory to the time that analytical results are issued, and will conduct a final check on the analytical calculations and sign off on the laboratory reports. The laboratory QA/QC officer will be Carl Ambruster of Eurofins Edison (within Eurofins Environment Testing Northeast LLC), the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory being employed for all environmental sampling at the Site.

2.7 Thirty-Party Data Validator

The third-party data validator will be responsible for reviewing the final data packages for soil, groundwater, and soil vapor and preparing a DUSR that will provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the laboratory analyses for the investigation. The third-party data validator will be Lori Beyer of L.A.B. Validation Corporation of East Northport, New York.

3.0 DATA QUALITY OBJECTIVES

The objectives for the sampling include:

- During implementation of the RAWP soil, soil vapor, and groundwater samples will be collected from post-excavation locations, temporary soil vapor points, and permanent groundwater monitoring wells, respectively.
- Samples will be collected to confirm the extent of on-site contamination and identify contamination remaining in-place following completion of the Remedial Action.

Who will use the data?

- The collected data will be used by NYSDEC, NYSDOH, the Volunteer, and AKRF as part of the Site's enrollment in the BCP.

What types of data are needed?

- Soil samples will be collected from the Site, either as part of waste characterization, a pre-design investigation, or as a post-remedial documentation sampling. Post-excavation endpoint soil samples will be analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, polychlorinated biphenyls (PCBs) by EPA Method 8082, pesticides by EPA Method 8081, target analyte list (TAL) metals by EPA Method 6000/7000 series, per- and polyfluorinated compounds (PFAS) by EPA Method 1633A, and 1,4-dioxane by EPA Method 8270, using Category B deliverables.
- Groundwater samples will be collected from permanent monitoring wells to be installed for post-remedial monitoring and/or existing monitoring wells to aid in designing the groundwater treatment program and analyzed for VOCs by EPA Method 8260 using Category B deliverables.
- Soil vapor samples will be analyzed for VOCs by Method TO-15 using Category B deliverables.

How much data are needed?

- Post-excavation endpoint soil samples will be collected at a frequency of one per 900-square feet from the bottom of the Site surface and along the sidewalls. Waste characterization samples will be collected at an estimated frequency of one per 600- 800 cubic yards. Approximately 25 soil samples will be collected as part of the pre-design investigation (PDI).
- Approximately 53 groundwater samples will be collected during the bench scale study and pre- & post-remedial groundwater sampling from up to 12 wells. Additional samples may be required to apply for a dewatering permit, if needed.
- At least five post-remedial soil vapor samples will be collected to determine if the contingency SVES is needed. If the contingency SVES is needed, an additional two soil vapor samples will be collected for the SVE pilot test. In addition, indoor and ambient air samples will be collected within 30 days of SSDS start up.

Where, when, and how should the data be collected/generated?

- Post-excavation endpoint soil samples will be collected from the bottom and sidewalls of remedial excavation areas across the Site. Soil samples will be collected using decontaminated stainless steel sampling trowel or hand auger. Soil samples will be placed directly into pre-sterilized, laboratory-issued containers by AKRF personnel and shipped to the laboratory via a courier with chain-of-custody (COC) documentation in accordance with appropriate EPA protocols to a NYSDOH ELAP-certified laboratory.

- Post-remedial monitoring well locations are shown on Figure X, in the RAWP. Groundwater samples will be collected in accordance with EPA low-flow sampling protocols approximately one to two weeks following monitoring well development. Samples will be collected by AKRF personnel using a submersible bladder pump with HDPE tubing. During sampling, water quality parameters will be recorded on log sheets until the parameters have stabilized within ±10% and turbidity is below 50 nephelometric turbidity units (NTUs). Groundwater samples slated for laboratory analysis will be placed in laboratory-supplied containers and shipped in accordance with appropriate EPA protocols to a NYSDOH ELAP-certified laboratory.
- Five soil vapor samples will be collected from areas of high concentrations detected during the Phase II and Remedial Investigation. Soil vapor, indoor air, and ambient air sampling will be performed in accordance with the guidelines provided in the NYSDOH document entitled, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York," (October 2006, revised 2024)." The soil vapor samples will be collected over a 2-hour time period and the indoor air and ambient air samples will be collected over a 24hour time period using a 6-Liter, batch-certified SUMMA® canister equipped with a vacuum gauge and flow regulator set at a maximum rate of 0.2 liter per minute. After two hours, the flow controller valve will be closed, the final vacuum noted, and the canister placed in a shipping carton for delivery to the laboratory.
- Soil samples analyzed for PFAS will be collected in accordance with the NYSDEC document entitled, "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)" dated April 2023. Soil samples will be collected using acceptable equipment, such as stainless steel spoons, bowls, and hand augers. Decontamination will be performed using PFAS-free water and Alconox. Samples collected for PFAS analysis will be kept in coolers separate from other analyses.

Who will collect and generate the data?

- AKRF, and any subcontractor, will be responsible for performing the sampling. All samples will be analyzed by Eurofins Edison, NYSDOH-certified laboratories. AKRF will be responsible for collecting, reviewing, assessing, and disseminating validated data. Third-party data validation and the preparation of a DUSR will be prepared by Ms. Lori Beyer of L.A.B. Validation Corporation.

How will the data be reported?

- The data will be reported in the Final Engineering Report (FER), and as EQuIS-compatible electronic data deliverables (EDDs) submitted to NYSDEC.

How will the data be archived?

- All hard-copy data will be maintained at AKRF offices for a minimum of one year. Field logbooks and forms/sampling logs will be scanned and all electronic data will be archived on the AKRF corporate server.

4.0 STANDARD OPERATING PROCEDURES (SOPS)

The following sections describe the SOPs for the remedial activities included in the RAWP. During these activities, safety monitoring will be performed as described in the HASP, included as Appendix B of the RAWP.

4.1 Decontamination of Sampling Equipment

All sampling equipment (augers, drilling rods, split spoon samplers, probe rods, pumps, etc.) will be either dedicated or decontaminated between sampling locations. Decontamination will be conducted on plastic sheeting (or equivalent) that is bermed to prevent discharge to the ground. The decontamination procedure will be as follows:

1. Scrub using tap water/Alconox® mixture and bristle brush.
2. Rinse with tap water.
3. Scrub again with tap water/Alconox® mixture and bristle brush.
4. Rinse with tap water.
5. Rinse with distilled water.
6. Air-dry the equipment, if possible.

4.2 Management of Investigation-Derived Waste (IDW)

IDW will be containerized in New York State Department of Transportation (NYSDOT)-approved 55-gallon drums. The drums will be sealed at the end of each work day and labeled with the date, the excavation grid(s), the type of waste (i.e., drill cuttings), and the name and phone number of an AKRF point-of-contact. All IDW exhibiting field evidence of contamination will be disposed of or treated according to applicable local, state, and federal regulations.

5.0 SAMPLING AND LABORATORY PROCEDURES

5.1 Soil Sampling

Soil sampling will be conducted according to the following procedures:

- Surface soil samples (e.g., 0 to 6 inches below grade) should be collected using a pre-cleaned stainless steel spoon. Shallow subsurface soil samples (e.g., 6 to approximately 36 inches below grade) may be collected by digging a hole using a pre-cleaned hand auger or shovel. When the desired subsurface depth is reached, a pre-cleaned hand auger or spoon shall be used to obtain the sample.
- Characterize the sample according to the modified Burmister soil classification system.
- Field screen the sample for evidence of contamination (e.g., odors, staining, etc.) using visual and olfactory methods and screen for volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with a 10.6 electron Volt (eV) lamp.
- For composite sampling, deposit the soil sample into a stainless steel bowl for mixing prior to filling the sample containers. The soil should be placed directly into the bowl and mixed thoroughly by rolling the material into the middle until the material is homogenized.
- For grab samples, collect an aliquot of soil from each proposed sample location, place in laboratory-supplied glassware, label the sample in accordance with Section 5.6, and place in an ice-filled cooler for shipment to the laboratory. Samples analyzed for the emerging contaminants, PFAS, should be contained in a separate cooler and the sample containers should be labeled with ballpoint pen, not permanent marker.
- A list of acceptable sampling equipment is provided below, but other equipment may be considered as appropriate based on sampling conditions.
    - Stainless steel spoon
    - Stainless steel bowl
    - Steel hand auger or shovel without coatings
- Complete the proper chain of custody (COC) paperwork and seal the cooler.
- Record sample location, sample depth, and sample observations (evidence of contamination, PID readings, soil classification, etc.) in field log book and boring log data sheet, if applicable.
- Decontaminate any soil sampling equipment between sample locations as described in Section 4.1 of this QAPP. Standard two-step decontamination using detergent (Alconox) and clean, PFAS-free water will be used for sampling equipment (when analyzing for PFAS).

5.2 Groundwater Sampling

Groundwater sampling will be conducted according to the following procedures:

- Field screen the sample for evidence of contamination (e.g., odors, staining, etc.) using visual and olfactory methods and screen the well headspace for VOCs using a PID equipped with a 10.6 eV lamp.

- A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.
    - stainless steel inertia pump with HDPE tubing
    - peristaltic pump equipped with HDPE tubing and silicone tubing
    - stainless steel bailer with stainless steel ball
    - bladder pump (identified as PFAS-free) with HDPE tubing [a low-density polyethylene (LDPE) bladder will be used as no industry-approved HDPE alternative currently exists]
- Collect the groundwater sample from each proposed sample location in laboratory-supplied glassware, label the sample in accordance with Section 5.6, and place in an ice-filled cooler for shipment to the laboratory. Samples analyzed for the emerging contaminants, PFAS, should be contained in a separate cooler and the sample containers should be labeled with ballpoint pen, not permanent marker.
- Complete the proper COC paperwork and seal the cooler.
- Record sample location, sample depth, and sample observations (evidence of contamination, PID readings, free phase liquid, etc.) in field log book and boring log data sheet, if applicable.
- Decontaminate any groundwater sampling equipment between sample locations as described in Section 4.1 of this QAPP. Standard two-step decontamination using detergent (Alconox) and clean, PFAS-free water will be performed for sampling equipment.

5.3 Soil Vapor, Indoor Air, and Ambient Air Sampling

Soil vapor, indoor air, and ambient air sampling will be conducted according to the following procedures:

- Field screen the sample for evidence of contamination (e.g., odors, etc.) using olfactory methods and screen the purged vapors for VOCs using a PID equipped with an 10.6 eV lamp.
- Collect the soil vapor samples from each proposed sample locations in laboratory-supplied SUMMA® canisters, label the sample in accordance with Section 5.6, and place in shipment container for shipment to the laboratory.
- Complete the proper COC paperwork and seal the shipment container.
- Record sample location, sample depth, and sample observations (odors, PID readings, etc.) in field log book and boring log data sheet, if applicable.

5.4 Laboratory Methods

Table 1 summarizes the laboratory methods that will be used to analyze field samples and the sample container type, preservation, and applicable holding times. Eurofins of Edison, New Jersey, a NYSDOH ELAP-certified laboratory subcontracted to AKRF, will be used for all chemical analyses in accordance with the Division of Environmental Remediation (DER)-10 2.1(b) and 2.1(f) with Category B Deliverables.

Table 1
Laboratory Analytical Methods for Analysis Groups

Matrix	Analysis	EPA Method	Bottle Type	Preservative	Hold Time
Soil and Soil QA/QC	Volatile Organic Compounds (VOCs)	8260C	EnCore® samplers (3) and 2 oz. plastic jar	≤ 4 ºC	48 hours to extract; 14 days to analyze
	Semi-volatile Organic Compounds (SVOCs)	8270D	8 oz. Glass Jar	≤ 4 ºC	14 days to extract; 40 days to analyze
	1,4-Dioxane	8270D; 0.1 mg/kg RL	4 oz. Glass Jar	≤ 4 ºC	14 days to extract; 40 days to analyze
	Total Analyte List (TAL) Metals	6000/7000 Series, 6010C, and 7196A	8 oz. Glass Jar	≤ 4 ºC	6 months holding time; Mercury 28 days holding time; Hexavalent chromium 30 days to extract, 7 days to analyze
	Pesticides	8081B	8 oz. Glass Jar	≤ 4 ºC	14 days to extract; 40 days to analyze
	Polychlorinated Biphenyls (PCBs)	8082A	8 oz. Glass Jar	≤ 4 ºC	14 days to extract; 40 days to analyze
	Per- and Polyfluorinated Compounds (PFAS)	1633A	4 oz. HDPE Container	≤ 4 ºC	90 days to extract; 28 days to analyze
Groundwater and Groundwater QA/QC	VOCs	8260C	3 x 40 mL Glass Vials	HCl to pH < 2 and ≤ 4 ºC	48 hours to extract; 14 days to analyze
Soil Vapor, Indoor Air, and Ambient Air	VOCs	TO-15	6L SUMMA® Canister	None	14 days

Notes:
QA/QC samples will be analyzed for the same parameters as the parent sample, with the exception of the trip blank(s), which will be analyzed for VOCs by EPA Method 8260C only.
EPA – Environmental Protection Agency
mg/kg – milligrams per kilogram (parts per million)

5.5 Quality Control (QC) Sampling

In addition to the laboratory analysis of the soil and groundwater samples, additional analysis will be included for QC measures, as required by the Category B sampling techniques. These samples will include a field blank, trip blank, matrix spike/matrix spike duplicate (MS/MSD), and blind duplicate samples at a frequency of one sample per 20 field samples collected. QC samples will be analyzed for the same parameters as the accompanying samples, with the exception of any trip blanks, which will be analyzed for the VOC list only.

5.6 Sample Handling

5.6.1 Sample Identification

All samples will be consistently identified in all field documentation, chain-of-custody (COC) documents, and laboratory reports. All samples will be amended with the collection date at the end of the sample name in a year, month, day (YYYYMMDD) format. Blind duplicate sample nomenclature will consist of the sample type, followed by an "X"; MS/MSD samples nomenclature will consist of the parent sample name only, but triplicate sample volume will be collected and the COC comment section will explain that the additional volume is for running the MS/MSD; and trip and field blanks will consist of "TB-" and "FB-", respectively, and a sequential number of the trip/field blanks collected within the sample set. Special characters, including primes/apostrophes (’), will not be used for sample nomenclature.

5.6.1.2 Import Soil Sampling

In addition to the nomenclature detailed above, soil import samples will be identified with the "ISP-" and the import sample number in sequential order that the import sample was collected. Table 2 provides examples of the sampling identification scheme for import soil samples.

Table 2
Import Sample Nomenclature

Sample Description	Sample Designation
Import soil sample ISP-01 collected on March 1, 2027	ISP-01_20270301
Blind duplicate of import soil sample ISP-01 collected on March 1, 2027	ISP-X_20270301
Field blank associated with import soil sample ISP-01 collected on March 1, 2027	ISP-01-FB_20270301
Trip blank associated with import soil sample ISP-01 collected on March 1, 2027	ISP-01-TB_20270301

5.6.1.3 Endpoint Soil Sampling

In addition to the nomenclature detailed above, soil endpoint samples will be identified with the "EP-" and the endpoint sample number in sequential order that the endpoint sample was collected, and the depth below grade the sample was collected from in parentheses. Table 3 provides examples of the sampling identification scheme for the post-excavation endpoint samples.

Table 3
Endpoint Sample Nomenclature

Sample Description	Sample Designation
Endpoint soil sample EP-01 collected from 2 feet below grade on April 6, 2027	EP-01_2_20270406
Blind duplicate of excavation endpoint soil sample EP-01 collected from 2 feet below grade	EP-X_2_20270406

Sample Description	Sample Designation
on April 6, 2027	
Second blind duplicate of excavation endpoint soil sample EP-05 collected from 2 feet below grade on April 15, 2027	EP-X2_2_20270415
Trip blank associated with endpoint samples collected on April 15, 2027	EP-TB-01_20270415
Second field blank associated with endpoint samples collected on April 15, 2027	EP-FB-02_20270415

5.6.1.4 Waste Classification/Tank Excavation Sample Nomenclature

In addition to the nomenclature detailed above, any confirmatory endpoint samples collected from a previously unknown tank excavation will be identified by the excavation grid area and the cardinal direction of the sidewalls. The sample(s) collected from the bottom of the excavation will be amended with a "B-", followed by the number of bottom samples collected from the excavation in sequential order. Waste classification samples will be amended with "WC-" and the alphanumeric grid identification. Five-point composite samples will be amended with "C-" and grab samples to be analyzed for VOCs will be amended with "G-". Additionally, samples will be amended with the depth the sample was collected in feet below grade in parentheses. Table 4 provides examples of the sampling identification scheme for proposed waste classification samples and any hotspot or tank excavation samples.

Table 4
Waste Classification/Tank Excavation Sample Nomenclature

Sample Description	Sample Designation
Waste classification composite sample collected between grade and 2 feet below grade in Grid A1 on January 20, 2027	WC-A1-C_0-2_ 20270120
Waste classification grab sample collected between grade and 2 feet below grade in Grid A1 on January 20, 2027	WC-A1-G_1-2_ 20270120
Soil sample collected from the southern sidewall of the first tank grave encountered at 8 feet below grade on April 1, 2027	UST-1S_8_20270401
Blind duplicate sample collected from the southern sidewall of the first tank grave encountered at 8 feet below grade on April 1, 2027	UST-X_8_20270401
Soil sample collected from the northern sidewall of the second tank grave encountered at 4 feet below grade on April 1, 2027	UST-2N_4_20270401
Soil sample collected from the bottom of the second tank grave at 15 feet below grade on April 1, 2027	UST-2B_15_20270401

5.6.1.5 Post-Excavation Soil Vapor Sampling and Indoor/Ambient Air Sampling

In addition to the nomenclature detailed above, soil vapor samples will be collected from the completion of remedial soil excavation and indoor and ambient air samples will be collected after SSDS start up. Soil vapor samples will be identified with the "SV-" and the soil vapor sample number in sequential order that the soil vapor sample was collected, and the depth below grade the sample was collected from in parentheses. Table 5 provides examples of the sampling identification scheme for the post-excavation endpoint samples.

Table 5
Post-Excavation Soil Vapor Sample and Indoor/Ambient Air Sample Nomenclature

Sample Description	Sample Designation
Soil vapor soil sample SV-01 collected from 15 feet below grade on April 1, 2027	SV-01_15_20270406
Indoor air sample IA-01 collected on April 1, 2027	IA-01_20270406
Ambient air sample AA-01 collected on April 1, 2027	AA-01_20270406

5.6.1.6 Sample Labeling and Shipping

All sample containers will be provided with labels containing the following information:

- Project identification, including Site name and Site address
- Sample identification
- Date and time of collection
- Analysis(es) to be performed
- Sampler's initials

Once the samples are collected and labeled, they will be placed in chilled coolers and stored in a cool area away from direct sunlight to await shipment to the laboratory. All samples will be shipped to the laboratory at least twice per week. At the start and end of each workday, field personnel will add ice to the cooler(s) as needed.

The samples will be prepared for shipment by placing each sample in laboratory-supplied glassware, then wrapping each container in bubble wrap to prevent breakage, and adding freezer packs and/or fresh ice in sealable plastic bags. The COC form will be properly completed by the sampler in ink, and all sample shipment transactions will be documented with signatures, and the date and time of custody transfer. Samples will be shipped overnight (e.g., Federal Express) or transported by a laboratory courier. All coolers shipped to the laboratory will be sealed with mailing tape and a COC seal to ensure that the samples remain under strict COC protocol.

Sample Custody

Field personnel will be responsible for maintaining the sample coolers in a secured location until they are picked up and/or sent to the laboratory. The record of possession of samples from the time they are obtained in the field to the time they are delivered to the laboratory or shipped off-site will be documented on COC forms. The COC forms

will contain the following information: project name; names of sampling personnel; sample number; date and time of collection and matrix; and signatures of individuals involved in sample transfer, and the dates and times of transfers. Laboratory personnel will note the condition of the custody seal and sample containers at sample check-in.

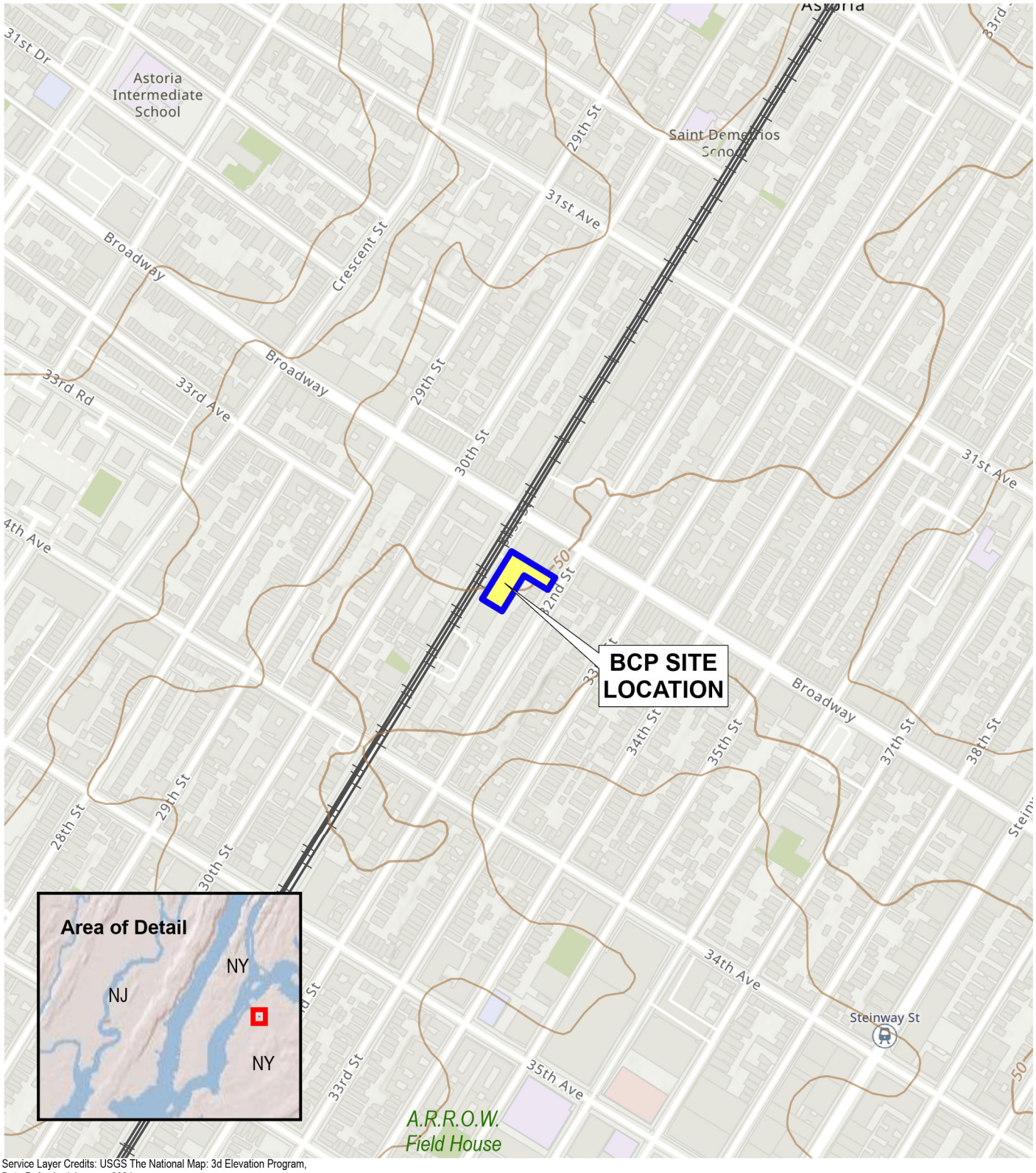
5.7 Field Instrumentation

Field personnel will be trained in the proper operation of all field instruments at the start of the field program. Instruction manuals for the equipment will be on file at the Site for referencing proper operation, maintenance, and calibration procedures. The equipment will be calibrated according to manufacturer specifications at the start of each day of fieldwork. If an instrument fails calibration, the project manager or QA/QC officer will be contacted immediately to obtain a replacement instrument. A calibration log will be maintained to record the date of each calibration, any failure to calibrate and corrective actions taken. The PID will be equipped with an 10.6 eV lamp and will be calibrated each day using 100 parts per million (ppm) isobutylene standard gas in accordance with the manufacturer's standards.

5.8 Quality Assurance (QA)

All soil, groundwater, soil vapor indoor air, and ambient air laboratory analytical data will be reviewed by a third-party validator and a Data Usability Summary Report (DUSR) will be prepared to document the usability and validity of the data. The Final Engineering Report (FER) will include a detailed description of endpoint sampling activities, data summary tables, concentration map showing sample locations and concentrations, DUSR, and laboratory reports.

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed January, 2024

0 500 1,000
SCALE IN FEET

N

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\BCP App Figures.aprx10/17/2025 7:37 AM240854 Fig 1 Site Locationmveilleux

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

BCP SITE LOCATION

DATE
10/17/2025

PROJECT NO.
240854

FIGURE
1

ATTACHMENT A
RESUMES OF QA/QC OFFICER, PROJECT MANAGER/ALTERNATE, AND FIELD TEAM LEADER/FIELD TECHNICIAN/SITE SAFETY OFFICER/ALTERNATE

CAREY PARKER

ENVIRONMENTAL SCIENTIST – SITE ASSESSMENT AND REMEDIATION

Carey Parker is an Environmental Scientist in AKRF's Site Assessment and Remediation group. She has over 3 years of experience conducting and overseeing Phase I Environmental Site Assessment, Phase II/Remedial Environmental Site Investigations, CAMP monitoring, and remediation oversight during construction.

BACKGROUND

Role in Project
Junior Environmental Scientist

EDUCATION

Bachelors in Geology, Bryn Mawr College, May 2022

CERTIFICATIONS

OSHA 40-hour HAZWOPER Certified
OSHA 30-hour Construction Safety Training

YEARS OF EXPERIENCE

Date started at AKRF:	February 2026
Prior industry experience:	PS&S: July 2022 to January 2026 (3 years, 7 months)

RELEVANT EXPERIENCE – AKRF

East River Energy Storage System (ESS) – Astoria, NY

AKRF is providing environmental consulting and monitoring services during construction of a 100-megawatt battery ESS facility at a New York Power Authority (NYPA)-owned property in Astoria. Carey serves as the on-site environmental monitor to ensure conformance to the environmental specifications and NYPA requirements. Her duties include air monitoring, overseeing/documenting excavation and export of contaminated soil, and collecting post-excavation endpoint and waste characterization samples as needed.

PACT Reid and Park Rock – Brooklyn, NY

AKRF is providing construction support and environmental monitoring services during improvements to the Reid and Rock Park NYCHA developments to ensure compliance with the NYCDEP-approved Remediation Action Plan/Construction Health and Safety Plan (RAP/CHASP). Carey serves as an on-site environmental monitor during earthwork for the landscaping improvements and utilities installation. Her duties include community and work zone air monitoring, overseeing excavation and export of urban fill, documenting the import/placement of environmentally clean backfill, and preparation of daily reports for submission to the client.

RELEVANT EXPERIENCE – PS&S CHERRY HILL, NJ

As a Project Scientist at PS&S, Carey coordinated and oversaw subsurface investigation and remediation programs, and prepared technical reports, work plans, proposals, and regulatory documentation. Her work included supervising and logging bedrock monitoring well installation and packer testing as part of a large-scale remedial investigation, and overseeing In-Situ Stabilization (ISS) remediation projects to ensure safety, regulatory compliance, and project efficiency.

REBECCA KINAL, P.E.

VICE PRESIDENT

Rebecca Kinal has over 20 years of experience in the assessment and remediation of soil and groundwater contamination and other hazardous/non-hazardous waste problems. Ms. Kinal's experience includes environmental due diligence, soil and groundwater investigations, leaking underground storage tank studies, soil gas/vapor intrusion surveys, and oversight of small- and large-scale remediation programs, including design of groundwater remediation systems and vapor mitigation systems. She has directed numerous Phase I and Phase II investigations and remediation programs, many of them in conjunction with commercial/residential developers, law firms, lending institutions, and public agencies. She is experienced in the cleanup of contaminated properties under New York State Brownfield Cleanup Program (BCP) regulations and the New York City "E-designation" program. As a part of this work, her duties have included technical and report review, proposal writing, scheduling, budgeting, and acting as liaison between clients and regulatory agencies, and project coordination with federal, state, and local authorities.

BACKGROUND

Education

M.S., Hydrogeology, Rensselaer Polytechnic Institute, 1995

B.S., Civil Engineering, Lafayette College, 1992

Licenses/Certifications

State of New York, P.E. Registration No. 082046, 2004

Years of Experience

Year started in company: 2000

Year started in industry: 1996

RELEVANT EXPERIENCE

White Plains Mall/Hamilton Green

Ms. Kinal managed environmental due diligence and remediation planning for the project, which included Phase I and II environmental assessments, a petroleum Spill investigation, preparation of remediation cost estimates, and application to the NYSDEC BCP.

New York City School Construction Authority On-Call Contracts for Environmental Consulting Services, Various Sites, NY

Ms. Kinal serves as the project manager for AKRF's on-call hazardous materials consulting contract with the New York City School Construction Authority for over 8 years. For potential new school sites, assignments include initial due diligence, Phase I environmental site assessments, (ESAs) and subsurface investigation of soil, groundwater, and soil vapor to determine the suitability of a site for development as a school, likely remediation requirements, and associated costs. For sites undergoing design and development, assignments include preparation of remediation plan, contract specifications, and design drawings. The work has also included conducting indoor air quality testing, vapor intrusion assessments, preparation of specifications, supervision of storage tank removals, and investigation and remediation of spills for existing schools. Due to the sensitivity of school sites, work under this contract is often conducted on short notice and during non-school hours.

USTA National Tennis Center, Queens, NY

AKRF prepared an EIS for the New York City Departments of City Planning (DCP) and Environmental Protection (DEP) as co-lead agencies to analyze the expansion of the National Tennis Center, which includes multiple improvements and construction projects at the USTA campus over several years. As part of the EIS requirements, AKRF prepared a Remedial Action Plan for implementation during the proposed project's construction. In accordance with the RAP, vapor mitigation systems were incorporated into the design for several of the proposed structures at the facility, including two new stadiums, a new transportation center, and several practice court facilities. Ms. Kinal prepared the specifications and design drawings for the vapor mitigation and is providing on-going construction support to review contractor submittals and inspect the vapor barrier and sub-slab depressurization system installations.

Montefiore Medical Center, Various Locations, NY

Ms. Kinal provides due diligence assistance to Montefiore Medical Center (MMC) for the ongoing expansion of their facilities, primarily in the Bronx and Westchester County. She conducts and manages environmental due diligence tasks related to their property transactions, including Phase I Environmental Site Assessments (ESAs), Phase II investigations, and geophysical surveys. She also assists MMC in making decisions with respect to environmental risk issues.

Queens West Development Project, Long Island City, NY

For over 20 years, AKRF has played a key role in advancing the Queens West development, which promises to transform an underused industrial waterfront property into one of largest and most vibrant mixed-use communities just across the East River from the United Nations. AKRF has prepared an Environmental Impact Statement that examines issues pertaining to air quality, land use and community character, economic impacts, historic and archaeological resources, and infrastructure. As part of the project, AKRF also undertook the largest remediation ventures completed to date under the NYSDEC Brownfields Cleanup Program (BCP). Ms. Kinal helped prepare the Remedial Work Plan (RWP) and oversaw the remediation of Parcel 9, a 1.8-acre former industrial site. Remediation includes installation of a sheet pile containment wall, excavation of coal tar- and petroleum-contaminated soil under a temporary structure to control odors during remediation, vapor mitigation for the future buildings, and institutional controls. Upon completion of the remediation activities, Ms. Kinal managed the preparation of a Final Engineering Report (FER) to document the clean-up activities. The NYSDEC issued a Certificate of Completion (COC) for the Parcel 9 site in December 2006. Ms. Kinal continues to oversee post-remediation monitoring and site management activities to ensure that the remedy remains in-place and effective.

Roosevelt Union Free School District, Roosevelt, NY

Ms. Kinal managed environmental investigation and remediation activities for the sites of three new elementary schools and a new middle school in Roosevelt, New York. Remediation activities include removal/closure of contaminated dry wells and underground petroleum storage tanks, and excavation and off-site disposal of petroleum- and pesticide-contaminated soil. Remediation of the new middle school site, which also included a sub-slab depressurization system, was conducted through coordination with the NYSDEC, NYSDOH, New York State Education Department (NYSED), and the local school district. Upon completion of the remediation and school construction, Ms. Kinal managed confirmatory indoor air testing and preparation of a Final Engineering Report to document the site clean-up. The NYSDEC issued a Certificate of Completion and the school was open for the Fall 2008 semester as planned.

Proposed NYC Public School Campus, Bronx, NY

Ms. Kinal provided environmental consulting services to the selected environmental remediation contractor for this former manufactured gas plant in the Mott Haven neighborhood of the Bronx, which was remediated under the NYSDEC BCP. These services included: preparation of an in situ sampling plan and excavation plan for waste

characterization and disposal; supervision of waste characterization sampling activities; development and implementation of a community air monitoring program during all remediation activities; and daily reporting to the NYC School Construction Authority.

National Grid – Halesite Manufactured Gas Plant Site, Town of Huntington, NY

Ms. Kinal served as the project manager for the remedial design and engineering work associated with remediation of National Grid's former manufactured gas plant (MGP) located in the Town of Huntington. The site is situated in a sensitive location along the waterfront, surround by commercial and residential properties, and half the property where the remediation was conducted is a steep slope. The remedy consisted of soil removal, oxygen injection, and non-aqueous phase liquid recovery. Ms. Kinal developed the remedial work plans, design/construction documents, and managed environmental oversight of the remedial work, including waste characterization and tracking, confirmatory endpoint sampling, air monitoring, and reporting to the NYSDEC. After the remediation work was completed, Ms. Kinal prepared appropriate close-out documentation in accordance with NYSDEC requirements.

Shell Service Station, Millwood, NY

Ms. Kinal planned and oversaw a Phase I Environmental Site Assessment and Phase II Subsurface Investigation of this active gasoline station in northern Westchester County. The Phase I/Phase II investigations were performed for the potential buyer of the property who wished to redevelop it with a more modern service station and convenience store. Ms. Kinal also prepared a conceptual remediation plan to address several areas of petroleum contamination identified during the Phase II. The plan, which was approved by NYSDEC, will be implemented in conjunction with the site redevelopment activities to achieve closure for several spills reported at the site.

Pelham Plaza Shopping Center Site Investigation & Remediation, Pelham Manor, NY

Ms. Kinal managed a Site Investigation at Pelham Plaza, an approximately ten-acre site that formerly contained a manufactured gas plant. The site was investigated under a voluntary clean-up agreement entered into with the NYSDEC by the site owner. The site investigation included advancing over 100 soil borings with continuous soil sampling to bedrock, installing monitoring and recovery wells, and conducting test pitting both indoor and outdoor locations to collect soil and groundwater samples and determine the extent of Non-Aqueous Phase Liquid (NAPL). The investigation also included: soil gas sampling to determine contaminant concentrations in the vapors beneath the foundation of an on-site retail store; sediment sampling in an adjacent creek to identify off-site impacts; and a tidal survey to determine tidal influence on groundwater levels at the site. Ms. Kinal also oversaw interim remedial measures, which include biweekly pumping of recovery wells to remove dense NAPL (DNAPL) from the site subsurface.

Shaws Supermarket Redevelopment Project, New Fairfield, CT

Ms. Kinal managed the Remedial Investigation (RI) for an approximately nine-acre shopping center site that was contaminated by releases from former dry cleaning operations. The site was being redeveloped with a new supermarket and separate retail stores. The investigation included the installation of monitoring wells in the intermediate overburden aquifer and bedrock aquifer, sampling of existing and newly installed wells, geophysical logging in bedrock wells, and pump testing in intermediate and bedrock wells. Ms. Kinal prepared a Remedial Action Work Plan (RAWP) based on results from the RI, which included a groundwater pump and treat system to contain a plume of perchlorethylene (PCE)-contaminated groundwater, and excavation and disposal of contaminated soil in the presumed source area. Following CTDEP approval of the RAWP, Ms. Kinal prepared bid specifications for soil excavation and remediation system installation, and oversaw their implementation. Ms. Kinal also prepared NPDES permit applications for discharges from construction dewatering and the groundwater remediation system, and conducted associated discharge monitoring.

Yankee Stadium, Bronx, NY

Ms. Kinal performed the hazardous materials analysis for the Draft Environmental Impact Statement for the proposed new Yankee Stadium. The analysis included a Phase I Environmental Site Assessment of the entire project area and Subsurface (Phase II) Investigation in areas where environmental conditions were identified. The Phase II investigation included geophysical surveys to search for potential underground storage tanks; and soil, soil gas, and groundwater sampling at over 40 locations to determine potential environmental impacts during and after the proposed construction. Ms. Kinal also developed an extensive community air monitoring plan and oversaw its implementation during deconstruction of the old Yankee Stadium.

Avalon on the Sound, New Rochelle, NY

Ms. Kinal oversaw environmental investigation and soil remediation during the construction of two luxury high-rise apartment buildings and an associated parking garage. Investigation activities included an electromagnetic survey to search for possible underground storage tanks, and subsurface sampling to characterize soil and groundwater. Remediation activities included removing underground storage tanks, excavating and disposing of soil contaminated with volatile and semi-volatile organic compounds, and collecting end-of-excavation confirmation samples.

Davids Island Environmental Audit, New Rochelle, NY

Ms. Kinal managed the hazardous materials portion of the audit of this undeveloped island site, including a Phase I Environmental Site Assessment (ESA) and Subsurface (Phase II) Investigation in areas where environmental conditions were identified. The Phase II investigation included collecting soil samples from more than 100 locations and analyzing them for targeted compounds, including volatile organic compounds, semi-volatile compounds, metals, pesticides, and polychlorinated biphenyls (PCBs). Ms. Kinal also oversaw an electromagnetic (EM) survey conducted to identify the location of suspected underground storage tanks on the island. Based on soil sample results, Ms. Kinal estimated the volume of contaminated soil requiring remediation and prepared cost estimates for soil excavation and for transportation and disposal of contaminated soil and hazardous materials.

Outlet City Site Investigation, Queens, NY

Ms. Kinal prepared a work plan for remedial investigation of the Outlet City site, a property in Long Island City that was formerly occupied by a manufacturer of industrial cleaners and pharmaceuticals. The site is being investigated and remediated under the NYSDEC voluntary clean-up program. In preparing the work plan, Ms. Kinal evaluated results from several previous investigations and conducted a limited groundwater sampling program to determine future data needs for designing remediation of creosote-contaminated soil and groundwater. The work plan included additional soil and groundwater sampling, a tidal survey to determine tidal influence on groundwater levels, and pilot free product recovery testing. Ms. Kinal also helped design a venting system for an on-site basement and performed exposure calculations for the vented vapors.

Yonkers Waterfront Redevelopment Project, Yonkers, NY

For this redevelopment along Yonkers' Hudson River waterfront, Ms. Kinal supervised the remediation of Parcels H and I that were contaminated with hazardous soil. During the remediation process, she reviewed the subcontractor health and safety plans, delineated the areas of excavation, and oversaw field activities to ensure compliance with the specifications and appropriate regulations. This property was remediated under the NYSDEC Environmental Restoration Program (ERP).

DEBORAH SHAPIRO, QEP

SENIOR VICE PRESIDENT

Deborah Shapiro is a Senior Vice President in the Site Assessment and Remediation Department. Ms. Shapiro supervises project teams and manages all aspects of assessment and remediation projects across the New York Metropolitan Area. Ms. Shapiro works with developers, non-profit organizations, architects, local community groups, local businesses, and government agencies. Her projects fall under the regulatory oversight of NYSDEC, NYCDEP, and NYCOER including the New York State Brownfield Cleanup Program (BCP), New York City Voluntary Cleanup Program (VCP), NYSDEC petroleum spills program, RCRA/UIC closures, and NYCOER's E-designation program. Ms. Shapiro has also assisted commercial and industrial property owners with maintaining the integrity of their portfolios by providing compliance related cleanup and chemical storage management services. Ms. Shapiro has also been a moderator and panelist at numerous conferences.

Ms. Shapiro manages all aspects of redevelopment projects from the initial Phase I ESA, Phase II, and remediation through post-remedial site management. In addition, her experience includes groundwater investigations, monitoring, and sampling programs; Brownfield and hazardous waste site investigations; In-Situ Chemical Oxidation; underground storage tank studies, including soil contamination delineation, classification, removal and disposal; waste characterization sampling; exposure assessments; on-going remedial action (especially AS/SVE), and permitting.

BACKGROUND

Education

M.S., Environmental Science, American University, 2001
B.A., Environmental Studies, American University, 1998

Professional Licenses/Certifications

Qualified Environmental Professional
Health and Safety Operations at Hazardous Materials Sites 29 CFR 1910.120

OSHA 8 Hour HAZWOPER Supervisor

OSHA 10 Hour Occupational Construction Safety and Health

CPR

Professional Memberships

Past President, New York City Brownfield Partnership
Board Member, Residents for a More Beautiful Port Washington
Member, Institute of Professional Environmental Practitioners (IPEP)

Awards

Big Apple Brownfield Award recipient as part of the Elton Crossing redevelopment team 2017
Big Apple Brownfield Award recipient as part of the Courtlandt Crescent redevelopment team 2013
Big Apple Brownfield Award recipient as part of the Via Verde redevelopment team 2012
Big Apple Brownfield Award recipient as part of the Cornerstone B1 (LaTerraza) redevelopment team 2011

Years of Experience

Year started in company: 2013
Year started in industry: 1998

AKRF

RELEVANT EXPERIENCE

Elton Crossing, Bronx, NY

AKRF provided environmental consulting services in connection with the purchase and redevelopment of the Elton Crossing site at 899 Elton Avenue in the Bronx, NY. The work initially involved the preparation of a Phase II subsurface investigation including soil and soil vapor testing to determine if the site would be eligible for the New York State Brownfield Cleanup Program (NYSBCP). Upon completion of the investigation, AKRF prepared a NYCBCP Application and the site was accepted into the NYSBCP. AKRF managed all aspects of the brownfield cleanup including; development of Investigation Work Plans, performing Remedial Investigations and Reports, preparation of Phase I ESAs, preparation of a Citizen Participation Plan, distribution of public notices, preparation and implementation of a Remedial Action Work Plan (RAWP), design of a sub-slab depressurization system, preparation of the Final Engineering Report and Site Management Plan, and sampling and management of soil disposal. AKRF is in the midst of implementing the Site Management Plan. As project manager, Ms. Shapiro was responsible for managing all technical components of the project, communication with NYSDEC and the Client, and managing the budget.

Second Farms, Bronx, NY

AKRF, Inc. was initially contracted by the New York City Office of Environmental Remediation (NYCOER) to conduct a subsurface investigation of a 1.12-acre parcel in the Bronx, New York under the United States Environmental Protection Agency (USEPA) Brownfield Assessment Grant program. The investigation included a geophysical survey and utility mark-outs, and the collection and analysis of soil, groundwater, soil vapor, indoor air and ambient air samples. AKRF continued working on the project for the developer by preparing a Remedial Action Plan and Environmental Assessment Statement. AKRF is in the midst of implementing the remedy.As project manager, Ms. Shapiro was responsible for managing all technical components of the project, communication with OER, NYCDEP, and the Client, and managing the budget.

Bradhurst Cornerstone II Residences, Manhattan, NY

AKRF, Inc. prepared a Part 58 Environmental Assessment and a City Environmental Quality Review Environmental Assessment Statement for the Bradhurst Cornerstone II Apartments project. Issues of concern for the environmental review included the identification of project commitments for certain of the four sites related to historic resources, hazardous materials, air quality, and building attenuation. As part of the mitigation of hazardous materials, AKRF conducted a Phase II investigation, and prepared a Remedial Action Plan and Construction Health and Safety Plan. As project manager, Ms. Shapiro was responsible for managing all technical components of the hazardous materials portion of the project, communication with the regulatory agency and the Client, and managing the budget.

Lambert Houses, Bronx, NY

AKRF performed an EIS of the Lambert Houses affordable housing complex located in the West Farms section of the Bronx, NY. Lambert Houses consisted of multi-story apartment buildings, parking garage, and a multi-tenant retail/commercial building alongside the elevated NYC subway. AKRF also conducted a Phase I ESA with a vapor intrusion screen of the Property to satisfy HUD's vapor intrusion requirements. The Phase I and vapor intrusion screens were prepared in accordance with ASTM E1527-05, ASTM E2600, and EPA's All Appropriate Inquiry (AAI) rule. After completion of the EIS, an E designation for hazardous materials was placed on the Site. A Subsurface Investigation was conducted and a Remedial Action Work Plan was prepared under OER oversight. The Site was subsequently entered in the NYC Voluntary Cleanup Program. AKRF is in the midst of implementing the RAWP, which included remediation of a hydraulic oil spill. As project manager, Ms. Shapiro was responsible for managing all technical components of the hazardous materials portion of the project, communication with the regulatory agency and the Client, and managing the budget.

Brook 156, Bronx, NY

AKRF was retained to provide environmental consulting services in connection with the purchase and development of the Site. AKRF prepared a Phase I Environmental Site Assessment (ESA) of the NYC-owned former gasoline service station and a former railroad. A Tier 1 Vapor Encroachment Screening was also conducted to satisfy HUD's vapor intrusion requirements. AKRF prepared a Remedial Investigation Work Plan (RIWP) and conducted a Remedial Investigation (RI) at the site, which included the collection and analysis of soil, soil vapor, and groundwater. The results of the RI, which were documented in a Remedial Investigation Report (RIR), were used to prepare a New York City Brownfield Cleanup Program (NYCBCP) application. The site was accepted into the New York State Brownfield Cleanup Program (NYSBCP). AKRF prepared a Citizen Participation Plan (CPP), distributed public notices, and conducted multiple Remedial Investigations to further investigate soil, soil vapor, and groundwater at the site prior to redevelopment. The results of the investigations were used to prepare a Remedial Action Work Plan (RAWP), which is undergoing review and approval by NYSDEC. The proposed remedy includes excavation of soil, design and installation of a soil vapor extraction system and sub-slab depressurization system, contingent groundwater treatment program, and installation of a vapor barrier and composite cover system. As project manager, Ms. Shapiro is responsible for managing all technical components of the project, communication with NYSDEC and the Client, and managing the budget.

On-Call Environmental Consulting Services (Various Locations), New York City Mayor's Office of Environmental Remediation (OER) (administered by NYCEDC)

Ms. Shapiro is managing an on-call contract with the OER for brownfields environmental assessment and remediation. The work has included conducting Phase I environmental site assessments (ESAs) and multi-media sampling of soil, groundwater, and soil vapor for various sites funded by EPA grants. The work plans and investigation reports were completed in accordance with OER and EPA requirements. AKRF also implemented a remedial plan for capping a park site in Staten Island. In addition, AKRF provided support to OER and an affordable housing developer to expedite an application for entry into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP), as well as preparation and implementation of the remedial investigation and remedial plan.

Atlantic Chestnut, Brooklyn, NY

AKRF was retained to provide environmental consulting services in connection with the purchase and redevelopment of former burned manufacturing buildings encompassing an entire city block in Brooklyn, New York. As part of due diligence, AKRF prepared a Phase I Environmental Site Assessment (ESA) Report for the property. After acquisition, the property was divided into three separate sites (3264 Fulton Street, 235 Chestnut Street, and 3301 Atlantic Avenue). AKRF prepared a Subsurface (Phase II) Investigation Work Plans and conducted Phase IIs at each of the sites, which included the collection and analysis of soil, soil vapor, and groundwater samples. Based on the results of the Phase IIs, which were documented in Subsurface (Phase II) Reports, New York State Brownfield Cleanup Program (NYSBCP) applications were prepared for each of the sites. After acceptance into the NYSBCP, AKRF prepared Citizen Participation Plans (CPPs) and distributed public notices. AKRF prepared Remedial Investigation (RI) Work Plans (RIWPs) and implemented numerous Remediation Investigations for each of the sites to further investigate contaminated media at the site prior to redevelopment, and prepared the RI Reports (RIRs). AKRF is in the midst of preparing Interim Remedial Work Plans for each Site, which include installation of a Soil Vapor Extraction to prevent the off-site migration of contaminants. As project manager, Ms. Shapiro was responsible for managing all technical components of the project, communication with NYSDEC and the Client, and managing the budget.

MARC S. GODICK, LEP

SENIOR VICE PRESIDENT

Marc Godick, a Senior Vice President of the firm, has over 30 years of experience in the environmental consulting industry. He has broad-based environmental experience includes expertise in brownfield redevelopment, site assessment, remedial investigation, design and implementation of remedial measures, compliance assessment, and litigation support.

BACKGROUND

Education

M.E., Engineering Science/Environmental Engineering, Pennsylvania State University, 1998
B.S., Chemical Engineering, Carnegie Mellon University, 1989

Licenses/Certifications

Licensed Environmental Professional (License # 396), State of Connecticut: 2003–Present
40 Hour HAZWOPER and Annual Refresher Training, 1990–Present
Supervisors of Hazardous Waste Operations (8 Hour), 1990

Professional Memberships

Member, Westchester County Stormwater Advisory Board, 2011–2020
Member, Westchester County Soil and Water Conservation District, 2005–2010, 2019–2020
Member, Village of Larchmont Planning Board, 2018–2019
Chair/Member, Village of Larchmont/Town of Mamaroneck Coastal Zone Management Commission, 1997–2018
Board of Directors, Sheldrake Environmental Center, Larchmont, New York, 2006–2008
Member, NYSDEC Risk-Based Corrective Action (RBCA) Advisory Group for Petroleum-Impacted Sites, 1997
Community Leadership Alliance, Pace University School of Law, 2001

Years of Experience

32 years in the industry
20 years with AKRF

RELEVANT EXPERIENCE

On-Call Environmental Consulting Services (Various Locations), New York City Mayor's Office of Environmental Remediation (NYCOER) (administered by NYCEDC)

Marc is the Principal-in-Charge of an on-call contract with the NYCOER for brownfields environmental assessment and remediation. The work has included conducting Phase I environmental site assessments (ESAs) and multi-media (Phase II) sampling of soil, groundwater, and soil vapor for various sites funded by EPA grants. The work plans and investigation reports were completed in accordance with NYCOER and EPA requirements. AKRF also developed a remedial plan for a former gas station site in the Bronx and implemented a remedial plan for capping a park site in Staten Island. In addition, Marc provided support to OER and an affordable housing developer to expedite an application for entry into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) and preparation and implementation of the remedial investigation and remedial plan.

New York City Department of Design and Construction, East Side Coastal Resiliency, Manhattan, NY

Marc led the environmental investigation, remedial design, and related support for a multidisciplinary design team selected by the New York City agency partnership of DDC, DPR, and ORR for the design of the East Side Coastal Resiliency (ESCR) project. The AKRF Team provided design services, for 100+ year storm protection with anticipated sea level rise along the east side of Lower Manhattan. The ESCR subsurface exploration program involved a review of

available utility plans and environmental reports involving manufactured gas plant (MGP) and potential petroleum-related contamination along a 2.5-mile study area from Montgomery Street to East 25th Street to develop a Subsurface Investigation Work Plan, which was approved by the NYCDEP. The program included both public and private utility mark-out services across vast areas of the project site containing critical infrastructure to enable the installation of numerous shallow and deep borings and groundwater wells. Marc supervised the implementation of the investigation, which was completed in multiple phases. He was also responsible for the interpreting the wide range of chemical parameters to evaluate critical cost and environmental impacts for the City and design team, and to prepare technical reports for submission and approval by the NYCDEP to satisfy for City Environmental Quality Review (CEQR) requirements. Marc also supported the design and environmental review team, including preparation of the Hazardous Materials chapter for the Environmental Impact Statement, estimating cost impacts to the project for design and cost recovery purposes (from Con Edison), and developing a Soil Management Plan. He also managed the evaluation of potential hydraulic and contaminant migration impacts associated with construction of the proposed flood control structure.

Remedial Design, Gowanus Canal First Street Turning Basin, New York City Department of Design and Construction (NYCDDC), Brooklyn, NY

Marc managed the remedial design for restoration of the filled-in former First Street Turning Basin in Brooklyn, New York. The remediation is being conducted as part of an Order of Consent between the City of New York and EPA for the Gowanus Canal Superfund Site. The remedial design includes removal of fill and sediment within the fill-in basing in an approximately 475-by-50-foot area. Design considerations included geotechnical concerns related to adjacent buildings and new and existing bulkheads; soil and water management; landscape design; and access/construction logistics. Marc is providing ongoing design support to the Responsibility Party for construction of the restored turning basin.

On-Call Environmental Consulting (Various Locations), New York City School Construction Authority, New York, NY

Marc is managing an on-call contract with the SCA for environmental assessment, remedial design, and plumbing disinfection. For new school sites, initial due diligence involves conducting Phase I ESAs and multi-media sampling of soil, groundwater, and soil vapor to determine the suitability of a site for development as a school and remediation requirements and associated costs. Once design for a school is underway, AKRF would prepare remediation plans and construction specifications and oversee the construction activities. For existing school sites, the work can involve conducting Phase I ESAs and indoor air quality testing, preparation of specifications, supervision of storage tank removals, investigation and remediation of spills, and development of remediation cost estimates. AKRF also conducts potable water sampling (for lead) and oversees plumbing disinfection work, which is required prior to new plumbing being placed into service. The assignments involve reviewing and commenting on disinfection plans, supervision of the disinfection and confirmation testing, and preparation of a report documenting the work was conducted in accordance with the specifications and applicable requirements. Due to the sensitivity of school sites, work under this contract is often conducted on short notice and during non-school hours.

Remediation & Litigation Support, 3200 Jerome Avenue, Bronx, NY (Former PS 151)

Marc managed the investigation and remediation of a former public school in the Bronx under the New York State Department of Environmental Conservation (NYSDEC) Brownfields Cleanup Program (BCP). The site was contaminated with trichloroethylene (TCE) from historic operations at the property prior to use as a school. The remedial investigation included soil, groundwater, and vapor intrusion assessment both on-site and off-site. The remedial design included excavation of the source area, in-situ chemical oxidation of groundwater, and installation of a sub-slab depressurization system (SSDS) to address to potential vapor intrusion. Implementation of the remedy was complete in late 2014. The completed remediation allows for multi-family residential, educational, childcare, and/or medical uses. Marc has also provided litigation support in connection with a cost recovery claim against the former operator of the site.

Remediation, Former Industrial Laundry/Dry Cleaning Plant, 2350 Fifth Avenue. New York, NY

Marc managed the assessment, cleanup and post-remedial operations, maintenance and monitoring of the only NYSDEC listed inactive hazardous waste (State Superfund) site in Manhattan, a former laundry/dry cleaning plant in Harlem. Remedial investigation included evaluation of soil, groundwater, soil vapor, indoor air, and building materials. Interim remediation included the removal of contaminated building materials and operation of a sub-slab vapor extraction system retrofitted into the existing building. Marc coordinated with the regulatory agencies, site owner and occupants; and managed the investigation, remedial design, and remedial implementation activities. Phase 1 of the Remedial Action Work Plan consisted of further removal of contaminated building materials. Phase 2 of the remediation included an SSDS retrofitted into the existing building, soil vapor extraction (SVE) system, and chemical oxidation injection. Remedial action work was completed in 2014 and documented in a Final Engineering Report. NYSDEC issued Certificate of Completion in January 2015 and the site has been reclassified to a "Class 4" site (site properly closed – requires continued management). Marc continues to manage the project, including operations, maintenance and monitoring of the SSDS and SVE systems under the NYSDEC-approved Site Management Plan.

606 West 57th Street, New York, NY, TF Cornerstone

Marc was responsible for the elements of the EIS pertaining to hazardous materials, including coordination of a Phase I ESA and summarizing pertinent site information for the hazardous materials and construction chapters. He provided pre-acquisition support to TF Cornerstone, which included development of a remedial cost estimate report to outline remediation cost during site development. Marc also managed work related to the subsurface investigation, localized remediation (chemical injection and limited excavation beneath the building basement) and regulatory closure of a petroleum spill on a portion of the project site to satisfy NYSDEC requirements. After EIS certification, Marc coordinated approvals with NYCOER, the regulatory agency overseeing remedial measures related to the redevelopment of the site. The Site has an (E) Designation and participated in the New York City Voluntary Cleanup Program. He managed the preparation of a Phase II Investigation Work Plan, Remedial Investigation Report, Remedial Action Work Plan, and contractor specifications for soil management and tank and hydraulic lift removal. Marc also managed the project during remediation and construction, and a Notice of Satisfaction has been issued by NYCOER.

ADRIANNA BOSCO

SENIOR PROFESSIONAL

Adrianna Bosco is a Senior Professional in AKRF's Site Assessment and Remediation Department. She has experience in navigating redevelopment projects through regulatory requirements under local and state programs. Ms. Bosco has worked closely with projects enrolled in the NYSDEC Brownfield Cleanup Program, the New York City Voluntary Cleanup Program (VCP), and NYSDEC petroleum spills program, from initial stages of investigation and remediation, through site closure and post-remedial management. Ms. Bosco also has experience in preparing Phase I Environmental Site Assessments and Subsurface (Phase II) Investigations, in addition to conducting environmental/construction oversight and the associated reporting elements. Prior to joining AKRF, she worked as an Environmental Scientist for PS&S Engineering, Inc.

BACKGROUND

Education

B.S., Environmental Engineering, Manhattan College, Bronx, New York, 2011

Licenses/Certifications

40 Hour OSHA HAZWOPER Certified, September 2011
10 Hour OSHA Construction Program Certified, October 2013

Years of Experience

Date started at AKRF: July 2014
Prior industry experience: PS&S Engineering, Inc. December 2011 – July 2014 (2 years, 7 months)

RELEVANT EXPERIENCE – AKRF

147-25 94th Avenue, Queens, NY

This historical meat refrigeration facility is enrolled in the Brownfield Cleanup Program to remediate the property and construct a 23-story affordable residential building. Although the site has an E-Designation for hazardous materials, noise, and air quality, AKRF assisted with applying for entry into the NYSDEC Brownfield Cleanup Program, due to the presence of contaminated soil and soil vapor beneath the site. AKRF is providing environmental consulting services throughout the project. As the Deputy Project Manager, Ms. Bosco prepared the Brownfield Cleanup Program application and Remedial Work Plan. Ms. Bosco also managed field activities associated with the Remedial Investigation, to determine the vertical and horizontal extent of on-site contamination. Once construction begins, Ms. Bosco will also manage the on-site remediation and prepare NYSDEC-required submittals and reports.

1888 Bathgate Avenue Redevelopment Site, Bronx, NY

AKRF is providing environmental consulting services in connection to the investigation and remediation of an approximately 36,000-square foot parcel enrolled in the Brownfield Cleanup Program. This former steel door manufacturing facility is contaminated with chlorinated solvents, including tetrachloroethene. The selected remedy included site-wide excavation of soil and bedrock, continuous air monitoring, collection of post-excavation endpoint samples, and implementation of an in-situ groundwater treatment program. As the Deputy Project Manager for this project, Ms. Bosco is managing various field efforts, including a Remedial Design Investigation to develop the groundwater treatment program and implementation of the Remedial Action Work Plan. Upon

completion of the remediation, Ms. Bosco will prepare the Final Engineering Report and Site Management Plan for submission to the NYSDEC.

East Side Coastal Resiliency, Manhattan, NY

Ms. Bosco served as an Environmental Scientist and conducted a portion of the 2016 subsurface investigation of the 2.5 mile study area from Montgomery Street to East 23rd Street. The ESCR subsurface exploration program involved a review of available utility plans and environmental reports involving manufactured gas plant (MGP) and petroleum-related contamination. Responsibilities included groundwater sampling, soil boring and temporary well installation, and compliance with the Supplemental Subsurface Investigation Work Plan.

Elton Crossing, Bronx, NY

AKRF's work includes the implementation of the NYSDEC-approved Remedial Action Work Plan for this former industrial property, including: in-situ testing, off-site transport, the closure of two petroleum spills; the registration, removal, and closure of five petroleum storage tanks encountered during excavation; and the delineation of soil contaminants, including hazardous lead, petroleum, and pesticides. As the Environmental Scientist, Ms. Bosco provided remedial oversight during soil excavation, confirmatory endpoint sampling, SSDS piping installation and inspections, vapor barrier installation, and air monitoring for particulates and volatile organic compounds (VOCs).

145 West Street, Greenpoint, Brooklyn, NY

As the Environmental Scientist and Deputy Project Manager for this project, Ms. Bosco conducted a supplemental remedial investigation, including soil and groundwater sampling, and several rounds of waste characterization soil sampling. Ms. Bosco also performed remedial oversight during activities such as soil excavation and off-site disposal, underground storage tank (UST) removal, SSDS piping installation and testing, and routine air monitoring. Ms. Bosco also aided in the preparation of the Final Engineering Report (FER) and Site Management Plan (SMP).

Former Laundry/Dry Cleaning Plant, New York, NY

Ms. Bosco served as the Environmental Scientist of the only New York State Department of Environmental Conservation's (NYSDEC) listed inactive hazardous waste (State Superfund) site in Manhattan, a former laundry/dry cleaning plant in Harlem. Remedial investigation included evaluation of soil, groundwater, soil vapor, indoor air, and building materials. Interim remediation included the removal of contaminated building materials and operation of an innovative sub-slab vapor extraction system retrofitted into the existing building. As the Environmental Scientist, Ms. Bosco performed remedial action oversight, including SSDS piping installation inspections and Health and Safety Plan (HASP) air monitoring for volatiles and particulates. Remedial action work was completed in 2014 and documented in a Final Engineering Report. NYSDEC issued Certificate of Completion in January 2015 and the site has been reclassified to a "Class 4" site (site properly closed – requires continued management). Ongoing activities continue under the NYSDEC-approved Site Management Plan, including operations, maintenance and monitoring of the SSDS and SVE system.

RELEVANT EXPERIENCE – OTHER

PS&S Engineering, Inc. (PS&S), Yonkers, NY

Before joining AKRF, Ms. Bosco was an Environmental Scientist in the Environmental Department at PS&S. She was responsible for conducting site investigations and providing construction oversight for remediation projects in New York and New Jersey. As a staff scientist, she was responsible for sampling and analysis of various media, preparing technical reports and work plans, and conducting Phase I Environmental Site Assessments.

BENJAMIN HESS, PE

ENVIRONMENTAL ENGINEER

Benjamin Hess is a Senior Environmental Engineer in AKRF's Site Assessment and Remediation group with experience in sampling of soil, groundwater and soil vapor, sub-slab depressurization (SSDS) and soil vapor extraction (SVE) monitoring and optimization, operations and maintenance of groundwater treatment systems, subcontractor oversight and contractor coordination, and various report drafting and editing. Mr. Hess has provided environmental consulting services according to current standards and regulations set forth by federal, state, and local agencies. He has conducted Phase I Environmental Site Assessments (ESAs) and has assisted with Phase II ESA subsurface sampling, and soil vapor investigations per New York State Department of Health protocols.

BACKGROUND

Role in Project
Junior Engineer

Education
Bachelor of Science in Environmental Engineering, Syracuse University, 2017

Certifications
OSHA 40-hour Health & Safety Training for Hazardous Waste Operations
OSHA 10-hour Construction Training
Professional Engineering License, New York State

Years of experience
Date started at AKRF: August 2024
Prior industry experience: Wood PLC: September 2017 to December 2018 (1 year, 2 months)
Fleming Lee Shue: December 2018 to August 2024 (5 years, 7 months)

RELEVANT EXPERIENCE

Queens Plaza Residential Development - Brownfield Cleanup Site, Long Island City, NY

Remediation of this Site is being conducted under the New York State Department of Environmental Conservation (NYSDEC) Brownfields Cleanup Program (BCP). For this project, Mr. Hess served as the lead engineer for the design of an expanded capture well system. The system was designed to depress the groundwater table below static level and maintain hydraulic control of on-Site contamination to prevent migration off-Site. Mr. Hess also served as the lead operator for both the capture well system and the on-site sub-slab depressurization system.

Former ACCO Brands Inc. - Brownfield Cleanup Site, Long Island City, NY

Remediation of this Site is being conducted under the New York State Department of Environmental Conservation (NYSDEC) Brownfields Cleanup Program (BCP). For this project, Mr. Hess designed a permanent retrofitted sub-slab depressurization system into the existing building. Mr. Hess also conducted environmental monitoring including community air monitoring, inspecting the SSDS installation, and preparing daily reports for submittal to NYSDEC project managers. Mr. Hess also assisted in the preparation of the Final Engineering Report and Site Management Plan.

Information Technology High School – Voluntary Cleanup Site, Long Island City, NY

Remediation of the Site was conducted under the New York City Voluntary Cleanup Program (NYC VCP). For this project, Mr. Hess served as the lead operator of the on-site sub-slab depressurization system and was responsible for the annual inspection and certification report of engineering controls on Site.

Former W.L.K. Corp – Inactive Hazardous Waste Disposal Site, Maspeth, NY

Mr. Hess assisted in coordinating and implementing the Interim Remedial Measures Work Plam for the cleanup of remaining chlorinated solvents on Site. Mr. Hess also operated as the lead engineer overseeing the installation of a SVE system. Mr. Hess tested and optimized the system from 2020 to 2024.

Eagle II Development – NYSDEC Spill Site, Long Island City, NY

Mr. Hess designed and implemented a remedial investigation of a former auto service station and taxicab stand, and was responsible for the inventory, characterization and disposal of waste generated on-site. Mr. Hess also designed and oversaw the installation of a composite cover system and SSDS on Site.

1111 Marcus Avenue New Hyde Park, NY

Mr. Hess became a client certified operator for a large groundwater treatment system, performing weekly, bi-weekly and monthly inspection and maintenance tasks. He also inspected engineering controls throughout the Site and assisted in groundwater sampling and groundwater gauging events.

Brian Quinn

Environmental Scientist



Education

BA, Environmental Studies, Bucknell University

Years of Experience

4 years in the industry

2 years with AKRF

Brian Quinn is an Environmental Scientist at AKRF. He has experience in remedial investigations and construction oversight on project sites across the tri-state area. Brian also performs soil, groundwater, soil vapor, and air sampling.

Relevant Experience

New York City Public Health Laboratory, New York, NY

Brian conducts remedial oversight and air monitoring during building construction as part of AKRF's assessment/remediation services for a new Public Health Laboratory at the Harlem Hospital campus in Manhattan.

Hudson Piers, Yonkers, NY

AKRF is providing site assessment/remediation services for the southern half of the Hudson Piers site along the Yonkers waterfront. Brian is conducting construction oversight, air monitoring, and in-situ stabilization and solidification drilling oversight during building construction.

NYCSCA On-Call Environmental Consulting, Multiple Contracts, New York, NY

AKRF provides environmental consulting, environmental site assessment and remediation services under these contracts. Assignments have included environmental assessment, remedial design, plumbing disinfection, and potable water (lead) sampling consulting tasks. For sites undergoing design and development, assignments include preparation of remediation plans, design of sub-slab depressurization systems and contract specifications, and construction oversight. Brian has conducted Phase II investigations, remedial oversight, interior and exterior disinfection oversight, air monitoring and lead sampling during the construction of multiple school sites.

1100 Myrtle Avenue, Brooklyn, NY

AKRF prepared a Remedial Investigation Work Plan for the OER and performed the associated Remedial Investigation for a new 11-story mixed-use building. Following, the site was accepted into the NYSDEC Brownfield Cleanup Program, for which AKRF prepared the application. AKRF also prepared the BCP RIWP. Brian conducted remedial oversight and air monitoring during building construction.

1475 Macombs Road Zeta Charter School, Bronx, NY

Brian conducted remedial oversight, air monitoring, and performed sub-slab depressurization system sampling during building construction as part of AKRF's civil engineering and site assessment/remediation services for this 8-story building.

1559 Boone Avenue, Bronx, NY

Brian is conducting remedial oversight and air monitoring during building construction as part of AKRF's environmental planning, site assessment/remediation consulting, and geotechnical engineering for a new eight-story, 66-unit supportive housing building.

AKRF

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Carl Armbruster
Quality Assurance Manager

Qualifications Summary

Mr. Armbruster began his career in the environmental testing business in 1983 His experience in the environmental laboratory and engineering industry includes extensive technical, management/leadership experience in all aspects of the laboratory business. He is an action-oriented manager dedicated to ensuring the laboratory maintains a quality program that values data integrity, continuous improvement and customer satisfaction. His unique experience lends itself to working successfully with employees, managers and clients at all levels.

Professional Experience

Quality Assurance Manager – Eurofins Edison - 2005 to Present

Mr. Armbruster is responsible for establishment and implementation of the quality assurance program at the Edison facility; and for interfacing with the corporate Quality Assurance Director to ensure adherence with the overall Quality Management Plan. He is also responsible for monitoring implementation and compliance with NELAC and the company's QMP, conducting annual management system audits and data audits, as well as providing regulatory updates and technical support to the Laboratory Director, Operations Manager, Client Services and Sales department.

Project Manager/Assistant Technical Director – 2000 to 2005

Laboratory Director − 1998 to 2000

Account Manager − Clean Harbors Environmental Services − 1997 to 1998

Laboratory Manager − Waste Management Inc., and Chemical Waste Management Inc − 1988 to 1997

Environmental Scientist − ICF Technology − 1987 to 1988

Analytical Chemist − IT Corporation – 1985 to 1987

Analytical Chemist − Hess Environmental Laboratories – 1983 to 1985

Education

- MS in Biology – East Stroudsburg University, 1984
- BS in Environmental Studies - East Stroudsburg University, 1980

Lori A. Beyer

SUMMARY: General Manager/Laboratory Director with a solid technical background combined with Management experience in environmental testing industry. Outstanding organizational, leadership, communication and technical skills. Customer focused, quality oriented professional with consistently high marks in customer/employee satisfaction.

EXPERIENCE:

1998-Present L.A.B. Validation Corporation, 14 West Point Drive, East Northport, NY
President

- Perform Data Validation activities relating to laboratory generated Organic and Inorganic Environmental Data.

1998-Present American Analytical Laboratories, LLC. 56 Toledo Street, Farmingdale, NY
Laboratory Director/Technical Director

- Plan, direct and control the operation, development and implementation of programs for the entire laboratory to meet AAL's financial and operational performance standards.
- Ensures that all operations follow AAL's QA manual and other appropriate regulatory requirements.
- Actively maintains a safe and healthy working environmental that is demanded by local laws/regulations.
- Monitors and manages group's performance with respect to data quality, on time delivery, safety, analyst development/goal achievement and any other key performance indices.
- Reviews work for accuracy and completeness prior to release of results to customers.

1996-1998 Nytest Environmental, Inc. (NEI) Port Washington, New York
General Manager

- Responsible for controlling the operation of an 18,000-square foot facility to meet NEI's financial and operational performance standards.
- Management of 65 FTEs including Sales and Operations
- Ensure that all operations follow NEI's QA procedures
- Ensures that productivity indicators, staffing levels and other cost factors are held within established guidelines
- Maintains a quantified model of laboratory's capacity and uses this model as the basis for controlling the flow of work into and through the lab to ensure that customer requirements and lab's revenue and contribution targets are achieved.

1994-1996 Nytest Environmental, Inc. (NEI) Port Washington, New York
Technical Project Manager

- Responsible for the coordination and implementation of environmental testing programs requirements between NEI and their customers
- Supervise Customer Service Department
- Assist in the development of major proposals
- Complete management of all Federal and State Contracts and assigned commercial contracts
- Provide technical assistance to the customer, including data validation and interpretation
- Review and implement Project specific QAPP's.

1995 Nytest Environmental, Inc. (NEI) Port Washington, New York
Corporate QA/QC Officer

- Responsible for the implementation of QA practices as required in the NJDEP and EPA Contracts
- Primary contact for NJDEP QA/QC issues including SOP preparation, review and approval
- Responsible for review, verification and adherence to the Contract requirements and NEI QA Plan

1992-1994 Nytest Environmental, Inc. (NEI) Port Washington, New York
Data Review Manager

- Responsible for the accurate compilation, review and delivery of analytical data to the company's customers. Directly and effectively supervised a department of 22 personnel.
- Managed activities of the data processing software including method development, form creation, and production
- Implement new protocol requirements for report and data management formats
- Maintained control of data storage/archival areas as EPA/CLP document control officer

1987-1991 Nytest Environmental, Inc. (NEI) Port Washington, New York
Data Review Specialist

- Responsible for the review of GC, GC/MS, Metals and Wet Chemistry data in accordance with regulatory requirements
- Proficient with USEPA, NYSDEC, NJDEP and NEESA requirements
- Review data generated in accordance with SW846, NYSDEC ASP, EPA/CLP and 40 CFR Methodologies

1986-1987 Nytest Environmental, Inc (NEI) Port Washington, New York
GC/MS VOA Analyst

EDUCATION:

1982-1985 State University of New York at Stony Brook, New York; BS Biology/Biochemistry
1981-1982 University of Delaware; Biology/Chemistry
5/91 Rutgers University; Mass Spectral Data Interpretation Course, GC/MS Training
8/92 Westchester Community College; Organic Data Validation Course
9/93 Westchester Community College; Inorganic Data Validation Course

SAMUEL LUBELL

ENVIRONMENTAL SCIENTIST – SITE ASSESSMENT AND REMEDIATION

Samuel Lubell is an Environmental Scientist in AKRF's Site Assessment and Remediation group, with experience in environmental sampling and monitoring during site remediation.

BACKGROUND

Role in Project
Field Technician

EDUCATION

B.S. in Environmental Science, Minor in Planning, State University of New York Plattsburgh 2025

CERTIFICATIONS

OSHA 40-hour Hazardous Waste Operations and Emergency Response Training

OSHA 30-hour Construction Safety Training

NYC SST 8-Hour Fall Prevention for Construction Certification

YEARS OF EXPERIENCE

Date started at AKRF: March 2026

RELEVANT EXPERIENCE - AKRF

2 World Trade Center, New York, NY
AKRF is providing environmental consulting and monitoring services during construction of the 2 World Trade Center skyscraper at 200 Greenwich Street in Lower Manhattan. Mr. Lubell serves as an on-site environmental monitor and conducts community and work zone air monitoring in accordance with the site-specific Community Air Monitoring Plan (CAMP).

NYU Langone, Brooklyn, NY
AKRF prepared and is implementing a NYCOER-approved Remediation Action Work Plan/Construction Health and Safety Plan (RAWP/CHASP) during rehabilitation of the E-designated hospital parking lot. Mr. Lubell conducts community and work zone air monitoring in accordance with the site-specific Community Air Monitoring Plan (CAMP) during excavation activities. He also documents general construction and remedial activities.

Former United Hospital, Port Chester, NY
AKRF is providing construction support and environmental monitoring services during redevelopment of this former hospital under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). Mr. Lubell serves as an on-site environmental monitor during construction to ensure compliance with Remedial Action Work Plan (RAWP). His duties include community and work zone air monitoring, overseeing excavation and export of contaminated soil, and documenting the import of environmentally clean backfill.

Horizon Juvenile Detention Center, Bronx, NY
AKRF prepared and is implementing a NYCDEP-approved Remediation Action Plan/Construction Health and Safety Plan (RAP/CHASP) for redevelopment of the Horizon Juvenile Detention Center property by the City of New York Department of Design and Construction (NYCDDC). Mr. Lubell conducts community and work zone air monitoring in accordance with the site-specific Community Air Monitoring Plan (CAMP) during excavation activities. He also documents general construction and remedial activities.

PACT Reid and Park Rock – Brooklyn, NY
AKRF is providing construction support and environmental monitoring services during improvements to the Reid and Rock Park NYCHA developments under the Permanent Affordability Commitment Together (PACT) program, to ensure compliance with the NYCDEP-approved Remediation Action Plan/Construction Health and Safety Plan (RAP/CHASP). Mr. Lubell serves as an on-site environmental monitor during earthwork for the landscaping improvements and utilities installation. His duties include community and work zone air monitoring, overseeing excavation and export of urban fill, documenting the import/placement of environmentally clean backfill, and preparation of daily reports for submission to the client.

APPENDIX G
HEALTH AND SAFETY PLAN

IKOS SENIOR LIVING

QUEENS, NEW YORK

Health and Safety Plan

NYSDEC BCP Site No: C241290
AKRF Project Number: 240854

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York 12233

Prepared On Behalf Of:

Ikos Senior Living LLC
48-02 25th Avenue, Suite 400
Astoria, NY 11103

Prepared by:

AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, New York 10016
212-696-0670

JULY 2026

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ATTACHMENTS

Attachment A – Potential Health Effects from On-Site Contaminants
Attachment B – Report Forms
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1.0 INTRODUCTION

This environmental Health and Safety Plan (HASP) has been developed for the implementation of a Remedial Action Work Plan (RAWP) by AKRF, Inc. (AKRF) personnel and its subcontractors at the property located at 32-11 31st Street in the Astoria section of Queens, New York, hereafter referred to as the "Site." The Site is identified by the City of New York as Borough of the Queens Block 611, Lot 25 on the New York City Tax Map. The Volunteer is enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) as a Volunteer under BCP Site No. C203155.

The Site currently consists of a municipal, asphalt-paved parking lot and is not developed with any permanent structures. The Site location is shown on Figure 1, and the Site layout is shown on Figure 2. The Site is abutted to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. The greater surrounding area includes primarily commercial, retail, residential, and transit uses.

This HASP does not discuss routine health and safety issues common to general construction and excavation, including, but not, limited to slips, trips, falls, shoring, and other physical hazards. All AKRF employees are directed that all work must be performed in accordance with AKRF's Generic HASP and all Occupation Safety and Health Administration (OSHA)-applicable regulations for the work activities required for the project. All project personnel are furthermore directed that they are not permitted to enter Permit Required Confined Spaces (as defined by OSHA). For issues unrelated to contaminated materials, all non-AKRF employees are to be bound by all applicable OSHA regulations as well as any more stringent requirements specified by their employer in their corporate HASP or otherwise. AKRF is not responsible for providing oversight for issues unrelated to contaminated materials for non-employees. This oversight shall be the responsibility of the employer of that worker or other official designated by that employer.

2.0 HEALTH AND SAFETY GUIDELINES AND PROCEDURES

2.1 Hazard Evaluation

2.1.1 Hazards of Concern

Hazards of concern include: organic and inorganic chemicals, and heat and/or cold stress.

2.1.2 Physical Characteristics

Physical characteristics of the hazards of concern include solid, aqueous, and vapor states.

2.1.3 Hazardous Materials

The Site-specific hazardous materials that may be encountered during RAWP implementation include: historical fill material, solvent- and petroleum-related volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, and/or metals.

2.1.4 Chemicals of Concern

Chemical	REL/PEL/STEL	Health Hazards
Benzene	REL: 0.1 ppm N STEL: 1 ppm PEL: 1 ppm O STEL: 5 ppm	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen].
1,2-Dichloroethene	REL: 200 ppm PEL: 200 ppm	Irritation eyes, respiratory system; central nervous system depression.
Carbon Tetrachloride	N STEL: 2 ppm PEL: 10 ppm PEL C: 25 ppm; 5-min max peak 200 ppm	Irritation eyes, skin; central nervous system depression; nausea, vomiting; liver, kidney injury; drowsiness, dizziness, incoordination; [potential occupational carcinogen].
Chlordane	REL: 0.5 mg/m^3 PEL: 0.5 mg/m^3	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria; In Animals: lung, liver, kidney damage; [potential occupational carcinogen].
Chloroform	N STEL: 2 ppm PEL C: 50 ppm	Irritation eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness, exhaustion); anesthesia; enlarged liver; [potential occupational carcinogen].
Copper	REL: 1 mg/m^3 PEL: 1 mg/m^3	Irritation eyes, nose, pharynx; nasal septum perforation; metallic taste; dermatitis; In Animals: lung, liver, kidney damage; anemia.
DDD, DDE, & DDT	REL: 0.5 mg/m^3 PEL: 1 mg/m^3	Irritation eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen].

Chemical	REL/PEL/STEL	Health Hazards
Ethylbenzene	REL: 100 ppm N STEL: 125 ppm PEL: 100 ppm	Irritation eyes, nose, respiratory system; headache, lassitude (weakness, exhaustion), dizziness, confusion, malaise (vague feeling of discomfort), drowsiness, unsteady gait; narcosis; defatting dermatitis; possible liver injury; reproductive effects.
Fuel Oils	REL: 100 mg/m^3	Irritation eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid).
Lead	REL: 0.050 mg/m^3 PEL:0.050 mg/m^3	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension.
Manganese	REL: 1 mg/m^3 N STEL: 3 mg/m^3 PEL C: 5 mg/m^3	Manganism; asthenia, insomnia, mental confusion; metal fume fever: dry throat, cough, chest tightness, dyspnea (breathing difficulty), rales, flu-like fever; low-back pain; vomiting; malaise (vague feeling of discomfort); lassitude (weakness, exhaustion); kidney damage.
Mercury	REL: 0.05 mg/m^3 REL C: 0.1 mg/m^3 PEL: 0.1 mg/m^3	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria.
Methylene Chloride	PEL: 25 ppm O STEL: 125 ppm	Irritation eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numb, tingle limbs; nausea; [potential occupational carcinogen].

Chemical	REL/PEL/STEL	Health Hazards
PAHs	REL: 0.1 mg/m^3 PEL: 0.2 mg/m^3	Effects reported from occupational exposure to PAHs include chronic bronchitis, chronic cough irritation, bronchogenic cancer, dermatitis, cutaneous photosensitization, and pilosebaceous reactions. Reported health effects associated with chronic exposure to coal tar and its by-products (e.g., PAHs): Skin: erythema, burns, and warts on sun-exposed areas with progression to cancer. The toxic effects of coal tar are enhanced by exposure to ultraviolet light. Eyes: irritation and photosensitivity. Respiratory system: cough, bronchitis, and bronchogenic cancer. Gastrointestinal system: leukoplakia, buccal-pharyngeal cancer, and cancer of the lip. Hematopoietic system: leukemia (inconclusive) and lymphoma. Genitourinary system: hematuria and kidney and bladder cancers.
PCBs	REL: 0.001 mg/m^3 PEL: 0.5 mg/m^3	Irritation eyes, chloracne; liver damage; reproductive effects; [potential occupational carcinogen].
Tetrachloroethylene	PEL: 100 ppm PEL C: 200 ppm; max peak: 300 ppm	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen].
Toluene	REL: 100 ppm N STEL: 150 ppm PEL: 200 ppm PEL C: 300 ppm; 10-min max peak: 500 ppm	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage.
Trichloroethylene	PEL: 100 ppm PEL C: 200 ppm; 5-min max peak: 300 ppm	Irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen].
Zinc	REL: 5 mg/m^3 REL C: 15 mg/m^3 N STEL: 10 mg/m^3 PEL: 5 mg/m^3 (ZnO fume); 15 mg/m^3 (ZnO dust)	Chills, elevated body temperature, myalgia, cough, fatigue, chest pain, stomach cramps, nausea, anemia, changes in cholesterol levels, and vomiting.
Notes: REL: Recommended exposure limit (NIOSH) PEL: Permissable exposure limits (OSHA) STEL: Short-term exposure limit N: NIOSH O: OSHA C: Ceiling		

The potential health effects from these known and suspected on-site contaminants are provided in Attachment A.

2.2 Designated Personnel

AKRF will appoint one of its on-site personnel as the Site Safety Officer (SSO). This individual will be responsible for the implementation of the HASP. The SSO will work under the direction of a Qualified Environmental Professional (QEP) and will be experienced in the implementation of air monitoring and hazardous materials sampling programs. Health and safety training required for the SSO and all field personnel are outlined in Section 2.3 of this HASP.

2.3 Training

All personnel who enter the work area while intrusive activities are being performed will have completed a 40-hour training course that meets OSHA requirements of 29 CFR Part 1910, Occupational Safety and Health Standards. In addition, all personnel will have up-to-date 8-hour refresher training. The training will allow personnel to recognize and understand the potential hazards to health and safety. All field personnel must attend a training program, whose purpose is to:

- Make them aware of the potential hazards they may encounter;
- Provide the knowledge and skills necessary for them to perform the work with minimal risk to health and safety;
- Make them aware of the purpose and limitations of safety equipment; and
- Ensure that they can safely avoid or escape from emergencies.

Each member of the field crew will be instructed in these objectives before work begins. A Site safety meeting will be conducted at the start of the project work. Additional meetings shall be conducted, as necessary, for new personnel working at the Site.

2.4 Medical Surveillance Program

All AKRF and subcontractor personnel performing field work involving subsurface disturbance at the Site are required to have passed a complete medical surveillance examination in accordance with 29 CFR 1910.120 (f). A physician's medical release for work will be confirmed by the SSO before an employee can begin Site activities. The medical release shall consider the type of work to be performed and the required personal protective equipment (PPE). The medical examination will, at a minimum, be provided annually and upon termination of hazardous waste Site work.

2.5 Site Work Zones

During any activities involving subsurface disturbance, the work area must be divided into various zones to prevent the spread of any contamination, ensure that proper PPE is donned, and provide an area for decontamination.

The Exclusion Zone is defined as the area where exposure to impacted media could be encountered. The Contamination Reduction Zone (CRZ) is the area where decontamination procedures take place and is located next to the Exclusion Zone. The Support is the zone area where support facilities such as vehicles, fire extinguisher, and first aid supplies are located. The emergency staging area (part of the Support Zone) is the area where all workers on-site would assemble in the event of an emergency. A summary of these areas is provided below. These zones may be changed by the SSO, depending on that day's activities. All field personnel will be informed of the location of these zones before work begins. The exclusion zone and CRZ are 10 and 25 feet from the

excavator, respectively. Control measures such as caution tape and/or traffic cones will be placed around the perimeter of the work area when needed.

2.6 Personal Protection Equipment (PPE)

The PPE required for various kinds of tasks are based on 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response, Appendix B, "General Description and Discussion of the Levels of Protection and Protective Gear."

AKRF field personnel and other site personnel shall wear, at a minimum, Level D PPE. The protection will be based on the air monitoring described in the Community Air Monitoring Plan (CAMP).

Level D PPE includes donning of the following during excavation and sampling:

- Steel Toed Boots
- Hard Hat
- Work Gloves
- Safety Glasses
- Ear Plugs
- Nitrile Gloves
- Tyvek Suit [if non-aqueous phase liquid (NAPL) is present]

If PID readings exceed 5 ppm in the breathing zone, personnel will don Level C PPE, which includes Level D PPE and a half- or full-face respirator with a dual organic and particulate cartridge.

2.7 General Work Practices

To protect the health and safety of the field personnel, field personnel will adhere to the guidelines listed below during activities involving subsurface disturbance:

- Eating, drinking, chewing gum or tobacco, and smoking are prohibited, except in designated areas on the Site. These areas will be designated by the SSO.
- Workers must wash their hands thoroughly on leaving the work area and before eating, drinking, or any other such activity.
- The workers should shower as soon as possible after leaving the Site. Contact with contaminated or suspected surfaces should be avoided.
- The buddy system should always be used; each buddy should watch for signs of fatigue, exposure, and heat/cold stress.

3.0 EMERGENCY PROCEDURES AND EMERGENCY RESPONSE PLAN

The field crew will be equipped with emergency equipment, such as a first aid kit and disposable eye washes. In the case of a medical emergency, the SSO will determine the nature of the emergency and he/she will have someone call for an ambulance, if needed. If the nature of the injury is not serious, i.e., the person can be moved without expert emergency medical personnel, he/she should be taken to a hospital by on-site personnel. Directions to the hospital are provided below, and a Hospital Location Map showing the more direct route to the hospital is included as Figure 2.

3.1 Hospital Information

Hospital Name:	Mount Sinai Queens
Phone Number:	(718) 932-1000
Address:	30-19 Crescent Street at, 30th Road, Astoria, NY 11102
Directions:	1. Turn RIGHT out of the Site onto 31st Street towards Broadway. 2. Continue STRAIGHT on 31st Street. 2. Turn LEFT onto 30th Avenue. 3. Turn LEFT onto Crescent Street. The emergency room will be on the LEFT at the intersection of Crescent Street and 30th Road.

3.2 Emergency Contacts

Company	Individual Name	Title	Contact Number
AKRF	Deborah Shapiro	Project Director, QEP	(646) 388-9544
	Rebecca Kinal, PE	Remedial Engineer	(914) 922-2362
	Adrianna Bosco	Project Manager	Office: (646) 388-9576 Cell: (914) 874-3358
	Benjamin Hess	Alternate Project Manager	Office: (212) 696-0670 Cell: (732) 273-4992
	Carey Parker	Field Team Leader/Site Safety Officer (SSO)	(609) 472-6554
	Giovanni De Marzo	Alternate Field Team Leader/SSO	(516) 983-0917
Ikos Senior Living LLC	Alexa Mendel	Volunteer's Representative	Office: (929) 463-7686
Ambulance, Fire Department & Police Department	-	-	911
NYSDEC Spill Hotline	-	-	800-457-7362

4.0 APPROVAL & ACKNOWLEDGMENTS OF HASP

4.1 Approval

Signed: _____ Date: _____

AKRF Project Manager

Signed: _____ Date: _____

AKRF Health and Safety Officer

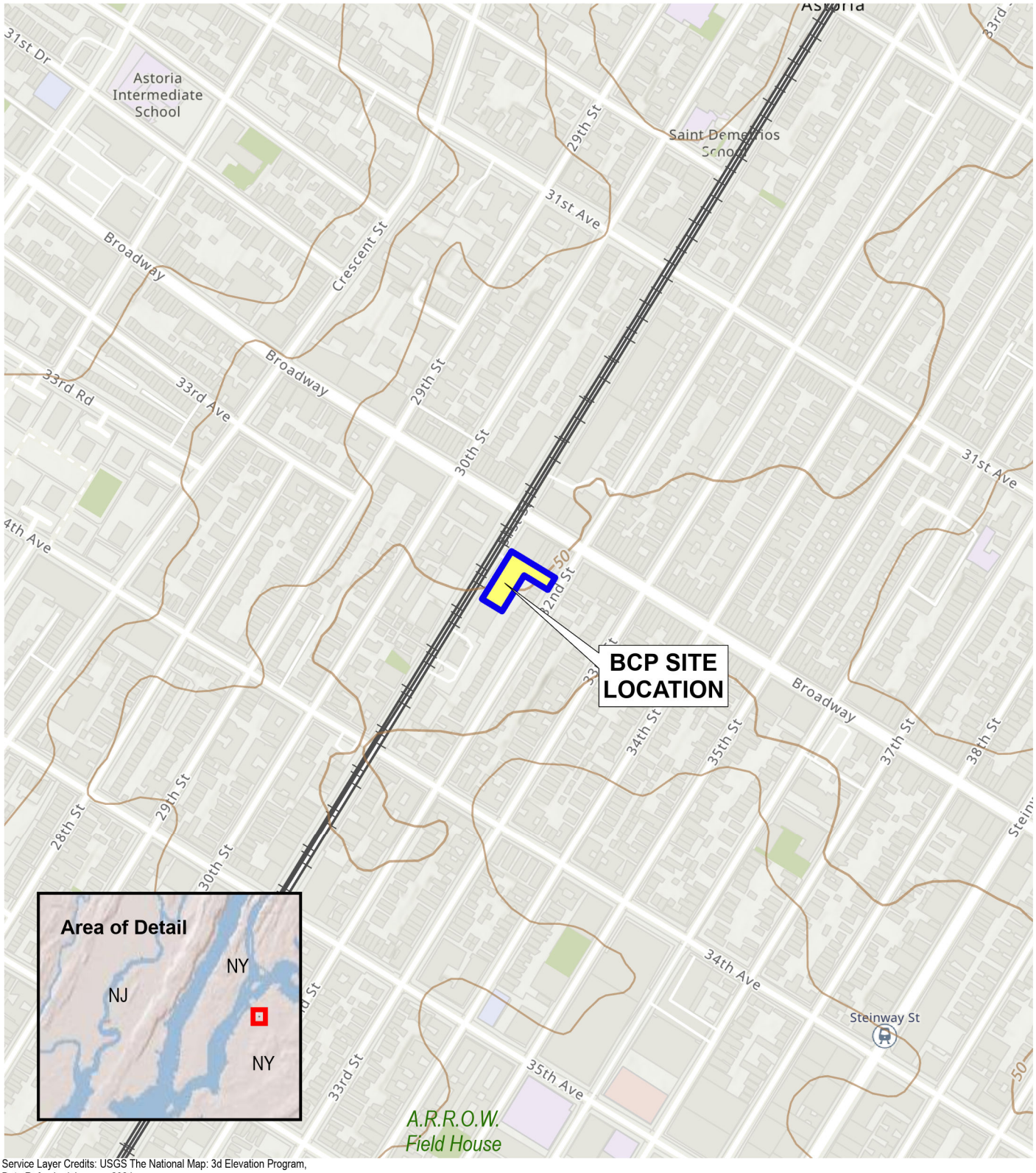
Below is an affidavit that must be signed by all workers who enter the site. A copy of the HASP must be on-site at all times and will be kept by the SSO.

4.2 Affidavit

I have read the Health and Safety Plan (HASP) for the project located at 32-11 31st Street, Astoria, New York. I agree to conduct all on-site work in accordance with the requirements set forth in this HASP and understand that failure to comply with this HASP could lead to my removal from the site.

Signed:	_____	Company:	_____	Date:	_____
Signed:	_____	Company:	_____	Date:	_____
Signed:	_____	Company:	_____	Date:	_____
Signed:	_____	Company:	_____	Date:	_____
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Signed:	_____	Company:	_____	Date:	_____
Signed:	_____	Company:	_____	Date:	_____

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed January, 2024

0 500 1,000
SCALE IN FEET

N

AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\BCP App Figures.aprx10/17/2025 7:37 AM240854 Fig 1 Site Locationmveilleux

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

BCP SITE LOCATION

DATE
10/17/2025

PROJECT NO.
240854

FIGURE
1



Service Layer Credits: ESRI World Street Map 2021

Mount Sinai Queens
3019 Crescent Street at, 30th Road
Astoria, NY 11102
(718) 932-1000

LEGEND

- PROJECT SITE BOUNDARY
- ROUTE TO HOSPITAL
- HOSPITAL LOCATION

0 500 1,000
SCALE IN FEET

akrf
440 Park Avenue South, New York, NY 10016

32-11 31st Street
Queens, New York

HOSPITAL ROUTE MAP

DATE **7/1/2026**
PROJECT NO. **240854**
FIGURE **1**

©2025 AKRF O:\Projects\240854 - IKOS SENIOR LIVING-SAR\SAR\240854 Hospital Route Map.mxd 10/17/2025 2:26:07 PM mvelleux

ATTACHMENT A

POTENTIAL HEALTH EFFECTS FROM ON-SITE CONTAMINANTS

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

1,2-DICHLOROETHENE
CAS # 540-59-0, 156-59-2, and 156-60-5

This fact sheet answers the most frequently asked health questions (FAQs) about 1,2-dichloroethene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to 1,2-dichloroethene occurs mainly in workplaces where it is made or used. Breathing high levels of 1,2-dichloroethene can make you feel nauseous, drowsy, and tired. *cis*-1,2-Dichloroethene has been found in at least 146 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA). *trans*-1,2-Dichloroethene was found in at least 563 NPL sites. 1,2-Dichloroethene was found at 336 sites, but the isomer (*cis*- or *trans*-) was not specified.

What is 1,2-dichloroethene?

(Pronounced 1,2-dī-klôrʹ ō-ĕthʹēn)

1,2-Dichloroethene, also called 1,2-dichloroethylene, is a highly flammable, colorless liquid with a sharp, harsh odor. It is used to produce solvents and in chemical mixtures. You can smell very small amounts of 1,2-dichloroethene in air (about 17 parts of 1,2-dichloroethene per million parts of air [17 ppm]).

There are two forms of 1,2-dichloroethene; one is called *cis*-1,2-dichloroethene and the other is called *trans*-1,2-dichloroethene. Sometimes both forms are present as a mixture.

What happens to 1,2-dichloroethene when it enters the environment?

- 1,2-Dichloroethene evaporates rapidly into air.
- In the air, it takes about 5-12 days for half of it to break down.
- Most 1,2-dichloroethene in the soil surface or bodies of water will evaporate into air.
- 1,2-Dichloroethene can travel through soil or dissolve in water in the soil. It is possible that it can contaminate groundwater.
- In groundwater, it takes about 13-48 weeks to break down.
- There is a slight chance that 1,2-dichloroethene will break down into vinyl chloride, a different chemical which is believed to be more toxic than 1,2-dichloroethene.

How might I be exposed to 1,2-dichloroethene?

- Breathing 1,2-dichloroethene that has leaked from hazardous waste sites and landfills.
- Drinking contaminated tap water or breathing vapors from contaminated water while cooking, bathing, or washing dishes.
- Breathing 1,2-dichloroethene, touching it, or touching contaminated materials in the workplace.

How can 1,2-dichloroethene affect my health?

Breathing high levels of 1,2-dichloroethene can make you feel nauseous, drowsy, and tired; breathing very high levels can kill you.

When animals breathed high levels of *trans*-1,2-dichloroethene for short or longer periods of time, their livers and lungs were damaged and the effects were more severe with longer exposure times. Animals that breathed very high

levels of *trans*-1,2-dichloroethene had damaged hearts.

Animals that ingested extremely high doses of *cis*- or *trans*-1,2-dichloroethene died.

Lower doses of *cis*-1,2-dichloroethene caused effects on the blood, such as decreased numbers of red blood cells, and also effects on the liver.

The long-term (365 days or longer) human health effects after exposure to low concentrations of 1,2-dichloroethene aren't known. One animal study suggested that an exposed fetus may not grow as quickly as one that hasn't been exposed.

Exposure to 1,2-dichloroethene hasn't been shown to affect fertility in people or animals.

How likely is 1,2-dichloroethene to cause cancer?

The EPA has determined that *cis*-1,2-dichloroethene is not classifiable as to its human carcinogenicity.

No EPA cancer classification is available for *trans*-1,2-dichloroethene.

Is there a medical test to show whether I've been exposed to 1,2-dichloroethene?

Tests are available to measure concentrations of the breakdown products of 1,2-dichloroethene in blood, urine, and tissues. However, these tests aren't used routinely to determine whether a person has been exposed to this compound. This is because after you are exposed to 1,2-dichloroethene, the breakdown products in your body that are detected with these tests may be the same as those that come from exposure to other chemicals. These tests aren't available in most doctors' offices, but can be done at special laboratories that have the right equipment.

Has the federal government made recommendations to protect human health?

The EPA has set the maximum allowable level of *cis*-1,2-dichloroethene in drinking water at 0.07 milligrams per liter of water (0.07 mg/L) and *trans*-1,2-dichloroethene at 0.1 mg/L.

The EPA requires that any spills or accidental release of 1,000 pounds or more of 1,2-dichloroethene must be reported to the EPA.

The Occupational Health Safety and Health Administration (OSHA) has set the maximum allowable amount of 1,2-dichloroethene in workroom air during an 8-hour workday in a 40-hour workweek at 200 parts of 1,2-dichloroethene per million parts of air (200 ppm).

Glossary

Carcinogenicity: Ability of a substance to cause cancer.

CAS: Chemical Abstracts Service.

Fertility: Ability to reproduce.

Ingest: To eat or drink something.

Milligram (mg): One thousandth of a gram.

ppm: Parts per million.

Solvent: A chemical that can dissolve other substances.

References

This ToxFAQs information is taken from the 1996 Toxicological Profile for 1,2-Dichloroethene produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

CHLORDANE
CAS # 57-74-9

This fact sheet answers the most frequently asked health questions (FAQs) about chlordane. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Exposure to chlordane occurs mostly from eating contaminated foods, such as root crops, meats, fish, and shellfish, or from touching contaminated soil. High levels of chlordane can cause damage to the nervous system or liver. This chemical has been found in at least 171 of 1,416 National Priorities List sites identified by the Environmental Protection Agency.

What is chlordane?

(Pronounced klôr′dān′)

Chlordane is a manufactured chemical that was used as a pesticide in the United States from 1948 to 1988. Technical chlordane is not a single chemical, but is actually a mixture of pure chlordane mixed with many related chemicals. It doesn't occur naturally in the environment. It is a thick liquid whose color ranges from colorless to amber. Chlordane has a mild, irritating smell.

Some of its trade names are Octachlor and Velsicol 1068. Until 1983, chlordane was used as a pesticide on crops like corn and citrus and on home lawns and gardens.

Because of concern about damage to the environment and harm to human health, the Environmental Protection Agency (EPA) banned all uses of chlordane in 1983 except to control termites. In 1988, EPA banned all uses.

What happens to chlordane when it enters the environment?

- Chlordane entered the environment when it was used as a pesticide on crops, on lawns and gardens, and to control termites.
- Chlordane sticks strongly to soil particles at the surface and is not likely to enter groundwater.
- It can stay in the soil for over 20 years.
- Most chlordane leaves soil by evaporation to the air.
- It breaks down very slowly.
- Chlordane doesn't dissolve easily in water.
- It builds up in the tissues of fish, birds, and mammals.

How might I be exposed to chlordane?

- By eating crops grown in soil that contains chlordane.
- By eating fish or shellfish caught in water that is contaminated by chlordane.
- By breathing air or touching soil near homes treated for termites with chlordane.
- By breathing air or by touching soil near waste sites or landfills.

How can chlordane affect my health?

Chlordane affects the nervous system, the digestive system, and the liver in people and animals. Headaches, irritability, confusion, weakness, vision problems, vomiting, stomach cramps, diarrhea, and jaundice have occurred in people who breathed air containing high concentrations of chlordane or accidentally swallowed small amounts of chlordane. Large amounts of chlordane taken by mouth can cause convulsions and death in people.

ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html

A man who had long-term skin contact with soil containing high levels of chlordane had convulsions. Japanese workers who used chlordane over a long period of time had minor changes in liver function.

Animals given high levels of chlordane by mouth for short periods died or had convulsions. Long-term exposure caused harmful effects in the liver of test animals.

We do not know whether chlordane affects the ability of people to have children or whether it causes birth defects. Animals exposed before birth or while nursing developed behavioral effects later.

How likely is chlordane to cause cancer?

The International Agency for Research on Cancer has determined that chlordane is not classifiable as to its carcinogenicity to humans. Studies of workers who made or used chlordane do not show that exposure to chlordane is related to cancer, but the information is not sufficient to know for sure. Mice fed low levels of chlordane in food developed liver cancer.

Is there a medical test to show whether I've been exposed to chlordane?

Laboratory tests can measure chlordane and its breakdown products in blood, fat, urine, feces, and breast milk. The amount of breakdown products measured in body fat or breast milk does not tell how much or how long ago you were exposed to chlordane or if harmful effects will occur.

Has the federal government made recommendations to protect human health?

In 1988, the EPA banned all uses of chlordane. The EPA recommends that a child should not drink water with more than 60 parts of chlordane per billion parts of drinking water (60 ppb) for longer than 1 day. EPA has set a limit in drinking water of 2 ppb.

EPA requires spills or releases of chlordane into the environment of 1 pound or more to be reported to EPA.

The Food and Drug Administration (FDA) limits the amount of chlordane and its breakdown products in most fruits and vegetables to less than 300 ppb and in animal fat and fish to less than 100 ppb.

The Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Health and Safety (NIOSH), and the American Conference of Governmental Industrial Hygienists (ACGIH) set a maximum level of 0.5 milligrams of chlordane per cubic meter (mg/m^3) in workplace air for an 8-hour workday, 40-hour workweek. These agencies have advised that eye and skin contact should be avoided because this may be a significant route of exposure.

Glossary

Carcinogenicity: Ability to cause cancer.

Long-term: Lasting one year or longer.

Milligram (mg): One thousandth of a gram.

Pesticide: A substance that kills pests.

ppb: Parts per billion.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1994. Toxicological profile for chlordane (update). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

Chloroform - ToxFAQs™

What is chloroform?

Chloroform is a colorless liquid with a pleasant, nonirritating odor and a slightly sweet taste. It occurs naturally in the environment mainly in wet environments (tropical oceans, forest soil, rice fields, swamplands, and peat moorlands) but also can be found in dry grasslands and is released during volcanic eruptions and when organic matter is burned. It can also be formed in small amounts when chlorine is added to water. Chloroform is also man-made.

In the past, chloroform was used as an inhaled anesthetic during surgery, but it is no longer used during surgery due to availability of safer alternatives. Currently, chloroform is used as a solvent and to make other chemicals.

What happens to chloroform in the environment?

Chloroform can enter the environment from manufacturing facilities or from treating water with chlorine. Since chloroform is made naturally in various environments and gets into the environment from human activities, it is likely found almost everywhere.

Chloroform evaporates quickly into the air from water and soil. In the air, it breaks down slowly, so it may travel long distances. Since chloroform dissolves easily in water, it can come back to the ground with the rain. Chloroform does not stick very well to soil and can therefore travel through the soil into the groundwater. Chloroform does not build up in large amounts in plants or animals.

How can I be exposed to chloroform?

Most people are exposed to very low levels of chloroform in indoor and outdoor air, food, and drinking water. If your home water supply is treated with chlorine, household activities such as showering, bathing, washing clothes or dishes, or preparing food may expose you to chloroform.

General population exposure to chloroform is expected to be low. Individuals who live near hazardous waste sites, or work with chloroform or chlorinated water may be exposed to higher levels.

People who work in industries that use or manufacture chloroform may have increased risk for exposure. People who live near places that chlorinate water or near contaminated hazardous waste sites may also have increased risk of exposure. Increased exposure may also occur for individuals who spend a lot of time around chlorinated water, such as swimmers, lifeguards, or cleaners.

How can chloroform affect my health?

Breathing low levels of chloroform for a short amount of time can cause you to become dizzy, tired, or give you a headache. At high levels, you may also have trouble breathing and may pass out. Breathing or drinking a large amount of chloroform can cause severe liver and kidney damage, and at very high exposure levels, can cause death.

Studies in animals showed that breathing chloroform caused damage to their nose that worsened with longer exposure periods. Lung damage also occurred in animals that breathed and/or drank chloroform. There is not clear evidence of developmental effects in pups born to animals exposed during pregnancy.

Chloroform

Can chloroform cause cancer?

The ability of chloroform to cause cancer in people has not been well studied.

Tumors in the kidneys were seen in mice that breathed chloroform for a long time. Animals that drank chloroform for a long time developed cancer of the liver and kidneys.

The U.S. Department of Health and Human Services (DHHS) determined that chloroform is reasonably anticipated to be a human carcinogen based on sufficient evidence of carcinogenicity in experimental animals.

The U.S. Environmental Protection Agency (EPA) classified chloroform as likely to be carcinogenic to human by all routes of exposure at high dose levels that result in cell damage; it is not likely to be carcinogenic by any route at lower dose levels that do not cause cell damage.

The International Agency for Research on Cancer (IARC) determined that chloroform is possibly carcinogenic to humans based on inadequate evidence in humans and sufficient evidence in experimental animals.

Can I get a medical test to check for chloroform?

There are tests to measure chloroform in your breath, blood, urine, breast milk, and body tissues. Chloroform does not stay in your body long, so these tests need to be done soon after you were exposed. These tests cannot predict whether you will have health problems from the exposure. Doctor's offices do not routinely offer these tests. If you think you have been exposed to this or any other chemical, talk to your doctor or nurse or call poison control.

How can I protect myself and my family from chloroform?

If your drinking water is supplied by a public water system, you can contact them for information on chloroform levels in the water. If you have a private well for water, your local health department may be able to tell you if this chemical has been found in water in your area. You may also want to get your water tested by a certified laboratory.

If you work at a place that uses chloroform, make sure you are following all safety guidelines. Do not let your children play near facilities manufacturing chloroform or hazardous waste sites.

For more information:

Call **CDC-INFO** at 1-800-232-4636, or submit your question online at https://wwwn.cdc.gov/dcs/ContactUs/Form

Go to ATSDR's Toxicological Profile for Chloroform: https://wwwn.cdc.gov/TSP/ToxProfiles/ToxProfiles.aspx?id=53&tid=16

Go to ATSDR's Toxic Substances Portal: https://wwwn.cdc.gov/TSP/index.aspx

Find & contact your ATSDR Regional Representative at http://www.atsdr.cdc.gov/DRO/dro_org.html

Polycyclic Aromatic Hydrocarbons (PAHs) - ToxFAQs™

This fact sheet answers the most frequently asked health questions (FAQs) about polycyclic aromatic hydrocarbons (PAHs). For more information, call the CDC Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to polycyclic aromatic hydrocarbons usually occurs by breathing air contaminated by wild fires or coal tar, or by eating foods that have been grilled. PAHs have been found in at least 600 of the 1,430 National Priorities List (NPL) sites identified by the Environmental Protection Agency (EPA).

What are polycyclic aromatic hydrocarbons?

(Pronounced pŏl′ĭ-sī′klĭk ăr′ə-măt′ĭk hī′drə-kar′bənz)

Polycyclic aromatic hydrocarbons (PAHs) are a group of over 100 different chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances like tobacco or charbroiled meat. PAHs are usually found as a mixture containing two or more of these compounds, such as soot.

Some PAHs are manufactured. These pure PAHs usually exist as colorless, white, or pale yellow-green solids. PAHs are found in coal tar, crude oil, creosote, and roofing tar, but a few are used in medicines or to make dyes, plastics, and pesticides.

What happens to PAHs when they enter the environment?

- PAHs enter the air mostly as releases from volcanoes, forest fires, burning coal, and automobile exhaust.
- PAHs can occur in air attached to dust particles.
- Some PAH particles can readily evaporate into the air from soil or surface waters.
- PAHs can break down by reacting with sunlight and other chemicals in the air, over a period of days to weeks.
- PAHs enter water through discharges from industrial and wastewater treatment plants.
- Most PAHs do not dissolve easily in water. They stick to solid particles and settle to the bottoms of lakes or rivers.
- Microorganisms can break down PAHs in soil or water after a period of weeks to months.
- In soils, PAHs are most likely to stick tightly to particles; certain PAHs move through soil to contaminate underground water.
- PAH contents of plants and animals may be much higher than PAH contents of soil or water in which they live.

How might I be exposed to PAHs?

- Breathing air containing PAHs in the workplace of coking, coal-tar, and asphalt production plants; smokehouses; and municipal trash incineration facilities.
- Breathing air containing PAHs from cigarette smoke, wood smoke, vehicle exhausts, asphalt roads, or agricultural burn smoke.
- Coming in contact with air, water, or soil near hazardous waste sites.
- Eating grilled or charred meats; contaminated cereals, flour, bread, vegetables, fruits, meats; and processed or pickled foods.
- Drinking contaminated water or cow's milk.
- Nursing infants of mothers living near hazardous waste sites may be exposed to PAHs through their mother's milk.

Polycyclic Aromatic Hydrocarbons

How can PAHs affect my health?

Mice that were fed high levels of one PAH during pregnancy had difficulty reproducing and so did their offspring. These offspring also had higher rates of birth defects and lower body weights. It is not known whether these effects occur in people.

Animal studies have also shown that PAHs can cause harmful effects on the skin, body fluids, and ability to fight disease after both short- and long-term exposure. But these effects have not been seen in people.

How likely are PAHs to cause cancer?

The Department of Health and Human Services (DHHS) has determined that some PAHs may reasonably be expected to be carcinogens.

Some people who have breathed or touched mixtures of PAHs and other chemicals for long periods of time have developed cancer. Some PAHs have caused cancer in laboratory animals when they breathed air containing them (lung cancer), ingested them in food (stomach cancer), or had them applied to their skin (skin cancer).

Is there a medical test to show whether I've been exposed to PAHs?

In the body, PAHs are changed into chemicals that can attach to substances within the body. There are special tests that can detect PAHs attached to these substances in body tissues or blood. However, these tests cannot tell whether any health effects will occur or find out the extent or source of your exposure to the PAHs. The tests aren't usually available in your doctor's office because special equipment is needed to conduct them.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) has set a limit of 0.2 milligrams of PAHs per cubic meter of air (0.2 mg/m^3). The OSHA Permissible Exposure Limit (PEL) for mineral oil mist that contains PAHs is 5 mg/m^3 averaged over an 8-hour exposure period.

The National Institute for Occupational Safety and Health (NIOSH) recommends that the average workplace air levels for coal tar products not exceed 0.1 mg/m^3 for a 10-hour workday, within a 40-hour workweek. There are other limits for workplace exposure for things that contain PAHs, such as coal, coal tar, and mineral oil.

Glossary

Carcinogen: A substance that can cause cancer.

Ingest: Take food or drink into your body.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for polycyclic aromatic hydrocarbons. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30329-4027.

Phone: 1-800-232-4636.

ToxFAQs™ Internet address via WWW is http://www.atsdr.cdc.gov/toxfaqs/index.asp.

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

Cadmium- ToxFAQs™

CAS # 7440-43-9

This fact sheet answers the most frequently asked health questions (FAQs) about cadmium. For more information, call the CDC Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to cadmium happens mostly in the workplace where cadmium products are made. The general population is exposed from breathing cigarette smoke or eating cadmium contaminated foods. Cadmium damages the kidneys, lungs, and bones. Cadmium has been found in at least 1,014 of the 1,669 National Priorities List (NPL) sites identified by the Environmental Protection Agency (EPA).

What is cadmium?

Cadmium is a natural element in the earth's crust. It is usually found as a mineral combined with other elements such as oxygen (cadmium oxide), chlorine (cadmium chloride), or sulfur (cadmium sulfate, cadmium sulfide).

All soils and rocks, including coal and mineral fertilizers, contain some cadmium. Most cadmium used in the United States is extracted during the production of other metals like zinc, lead, and copper. Cadmium does not corrode easily and has many uses, including batteries, pigments, metal coatings, and plastics.

What happens to cadmium when it enters the environment?

- Cadmium enters soil, water, and air from mining, industry, and burning coal and household wastes.
- Cadmium does not break down in the environment, but can change forms.
- Cadmium particles in air can travel long distances before falling to the ground or water.
- Some forms of cadmium dissolve in water.
- Cadmium binds strongly to soil particles.
- Fish, plants, and animals take up cadmium from the environment.

How might I be exposed to cadmium?

- Eating foods containing cadmium; low levels are found in all foods (highest levels are found in leafy vegetables, grains, legumes, and kidney meat).
- Smoking cigarettes or breathing cigarette smoke.
- Breathing contaminated workplace air.
- Drinking contaminated water.
- Living near industrial facilities which release cadmium into the air.

How can cadmium affect my health?

Breathing high levels of cadmium can severely damage the lungs. Eating food or drinking water with very high levels severely irritates the stomach, leading to vomiting and diarrhea.

Long-term exposure to lower levels of cadmium in air, food, or water leads to a buildup of cadmium in the kidneys and possible kidney disease. Other long-term effects are lung damage and fragile bones.

How likely is cadmium to cause cancer?

The Department of Health and Human Services (DHHS) and the International Agency for Research on Cancer (IARC) have determined that cadmium and cadmium compounds are human carcinogens. The EPA determined that cadmium is a probable human carcinogen (group B1).

Cadmium

CAS # 7440-43-9

How can cadmium affect children?

The health effects in children are expected to be similar to the effects seen in adults (kidney and lung damage depending on the route of exposure).

A few studies in animals indicate that younger animals absorb more cadmium than adults. Animal studies also indicate that the young are more susceptible than adults to a loss of bone and decreased bone strength from exposure to cadmium.

We don't know if cadmium causes birth defects in people. Studies in animals exposed to high levels of cadmium during pregnancy have resulted in harmful effects to the young. Young animals exposed to cadmium before birth have shown effects on behavior and learning. There is also some information from animal studies that high enough exposures to cadmium before birth can reduce body weights and affect the skeleton in the developing young.

How can families reduce the risk of exposure to cadmium?

- Do not allow children to play with batteries. Dispose of nickel-cadmium batteries properly.
- Cadmium is a component of tobacco smoke. Avoid smoking and smoking in enclosed spaces like inside the home or car in order to limit exposure to children and other family members.
- If you work with cadmium, use all safety precautions to avoid carrying cadmium-containing dust home from work on your clothing, skin, hair, or tools.
- A balanced diet can reduce the amount of cadmium taken into the body from food and drink.

Is there a medical test to determine whether I've been exposed to cadmium?

Cadmium can be measured in blood, urine, hair, or nails. Urinary cadmium has been shown to accurately reflect the amount of cadmium in the body.

The amount of cadmium in your blood shows your recent exposure to cadmium. The amount of cadmium in your urine shows both your recent and your past exposure.

Has the federal government made recommendations to protect human health?

The EPA has determined that exposure to cadmium in drinking water at concentrations of 0.04 milligrams per liter (0.04 mg/L) for up to 10 days is not expected to cause any adverse effects in a child.

The EPA has determined that lifetime exposure to 0.005 mg/L cadmium is not expected to cause any adverse effects.

The Food and Drug Administration (FDA) has determined that the cadmium concentration in bottled drinking water should not exceed 0.005 mg/L.

The Occupational Health and Safety Administration (OSHA) has limited workers' exposure to an average of 5 $\mu g/m^3$ for an 8-hour workday, 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2012. Toxicological Profile for Cadmium. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30329-4027.

Phone: 1-800-232-4636

ToxFAQs™ Internet address via WWW is http://www.atsdr.cdc.gov/toxfaqs/index.asp.

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ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

ARSENIC
CAS # 7440-38-2

Division of Toxicology ToxFAQs™ December 2003

This fact sheet answers the most frequently asked health questions (FAQs) about arsenic. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to higher than average levels of arsenic occurs mostly in the workplace, near hazardous waste sites, or in areas with high natural levels. At high levels, inorganic arsenic can cause death. Exposure to lower levels for a long time can cause a discoloration of the skin and the appearance of small corns or warts. Arsenic has been found at 1,014 of the 1,598 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is arsenic?

Arsenic is a naturally occurring element widely distributed in the earth's crust. In the environment, arsenic is combined with oxygen, chlorine, and sulfur to form inorganic arsenic compounds. Arsenic in animals and plants combines with carbon and hydrogen to form organic arsenic compounds.

Inorganic arsenic compounds are mainly used to preserve wood. Organic arsenic compounds are used as pesticides, primarily on cotton plants.

What happens to arsenic when it enters the environment?

❑ Arsenic cannot be destroyed in the environment. It can only change its form.
❑ Arsenic in air will settle to the ground or is washed out of the air by rain.
❑ Many arsenic compounds can dissolve in water.
❑ Fish and shellfish can accumulate arsenic, but the arsenic in fish is mostly in a form that is not harmful.

How might I be exposed to arsenic?

❑ Eating food, drinking water, or breathing air containing arsenic.
❑ Breathing contaminated workplace air.
❑ Breathing sawdust or burning smoke from wood treated with arsenic.
❑ Living near uncontrolled hazardous waste sites containing arsenic.
❑ Living in areas with unusually high natural levels of arsenic in rock.

How can arsenic affect my health?

Breathing high levels of inorganic arsenic can give you a sore throat or irritated lungs. Ingesting high levels of inorganic arsenic can result in death. Lower levels of arsenic can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet.

Ingesting or breathing low levels of inorganic arsenic for a long time can cause a darkening of the skin and the

appearance of small "corns" or "warts" on the palms, soles, and torso.

Skin contact with inorganic arsenic may cause redness and swelling.

Organic arsenic compounds are less toxic than inorganic arsenic compounds. Exposure to high levels of some organic arsenic compounds may cause similar effects as inorganic arsenic.

How likely is arsenic to cause cancer?

Several studies have shown that inorganic arsenic can increase the risk of lung cancer, skin cancer, bladder cancer, liver cancer, kidney cancer, and prostate cancer. The World Health Organization (WHO), the Department of Health and Human Services (DHHS), and the EPA have determined that inorganic arsenic is a human carcinogen.

How can arsenic affect children?

We do not know if exposure to arsenic will result in birth defects or other developmental effects in people. Birth defects have been observed in animals exposed to inorganic arsenic.

It is likely that health effects seen in children exposed to high amounts of arsenic will be similar to the effects seen in adults.

How can families reduce the risk of exposure to arsenic?

❑ If you use arsenic-treated wood in home projects, you should wear dust masks, gloves, and protective clothing to decrease exposure to sawdust.
❑ If you live in an area with high levels of arsenic in water or soil, you should use cleaner sources of water and limit contact with soil.

Is there a medical test to show whether I've been exposed to arsenic?

There are tests to measure the level of arsenic in blood, urine, hair, or fingernails. The urine test is the most reliable test for arsenic exposure within the last few days. Tests on hair and fingernails can measure exposure to high levels or arsenic over the past 6-12 months. These tests can determine if you have been exposed to above-average levels of arsenic. They cannot predict how the arsenic levels in your body will affect your health.

Has the federal government made recommendations to protect human health?

EPA has set limits on the amount of arsenic that industrial sources can release to the environment and has restricted or canceled many uses of arsenic in pesticides. EPA has set a limit of 0.01 parts per million (ppm) for arsenic in drinking water.

The Occupational Safety and Health Administration has set limits of 10 μg arsenic per cubic meter of workplace air (10 $\mu g/m^3$) for 8 hour shifts and 40 hour work weeks.

Source of Information

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological Profile for Arsenic. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs™ Internet address is http://www.atsdr.cdc.gov/toxfaq.html . ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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BARIUM AND COMPOUNDS

CAS # 7440-39-3

Division of Toxicology and Environmental Medicine ToxFAQs™ **August 2007**

This fact sheet answers the most frequently asked health questions (FAQs) about barium and barium compounds. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because these substances may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to barium occurs mostly in the workplace or from drinking contaminated water. Ingesting drinking water containing levels of barium above the EPA drinking water guidelines for relatively short periods of time can cause gastrointestinal disturbances and muscle weakness. Ingesting high levels for a long time can damage the kidneys. Barium and barium compounds have been found in at least 798 of the 1,684 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is barium?

Barium is a silvery-white metal which exists in nature only in ores containing mixtures of elements. It combines with other chemicals such as sulfur or carbon and oxygen to form barium compounds.

Barium compounds are used by the oil and gas industries to make drilling muds. Drilling muds make it easier to drill through rock by keeping the drill bit lubricated. They are also used to make paint, bricks, ceramics, glass, and rubber.

Barium sulfate is sometimes used by doctors to perform medical tests and to take x-rays of the gastrointestinal tract.

What happens to barium when it enters the environment?

❏ Barium gets into the air during the mining, refining, and production of barium compounds, and from the burning of coal and oil.
❏ The length of time that barium will last in air, land, water, or sediments depends on the form of barium released.
❏ Barium compounds, such as barium sulfate and barium carbonate, which do not dissolve well in water, can last a long time in the environment.
❏ Barium compounds, such as barium chloride, barium nitrate, or barium hydroxide, that dissolve easily in water usually do not last in these forms for a long time in the environment. The barium in these compounds that is dissolved in water quickly combines with sulfate or carbonate that are naturally found in water and become the longer lasting forms (barium sulfate and barium carbonate).
❏ Fish and aquatic organisms can accumulate barium.

How might I be exposed to barium?

❏ Ingesting small amounts present in your food and water or breathing air containing very low levels of barium.
❏ Living in areas with unusually high natural levels of barium in the drinking water.
❏ Working in a job that involves barium production or use.
❏ Living or working near waste sites where barium has been disposed of.

How can barium affect my health?

The health effects of the different barium compounds depend on how well the compound dissolves in water or in the stomach contents. Barium compounds that do not dissolve well, such as barium sulfate, are not generally harmful.

BARIUM AND COMPOUNDS
CAS # 7440-39-3

Barium has been found to potentially cause gastrointestinal disturbances and muscular weakness when people are exposed to it at levels above the EPA drinking water standards for relatively short periods of time. Some people who eat or drink amounts of barium above background levels found in food and water for a short period may experience vomiting, abdominal cramps, diarrhea, difficulties in breathing, increased or decreased blood pressure, numbness around the face, and muscle weakness. Eating or drinking very large amounts of barium compounds that easily dissolve can cause changes in heart rhythm or paralysis and possibly death. Animals that drank barium over long periods had damage to the kidneys, decreases in body weight, and some died.

How likely is barium to cause cancer?

The Department of Health and Human Services (DHHS) and the International Agency for Research on Cancer (IARC) have not classified barium as to its carcinogenicity. The EPA has determined that barium is not likely to be carcinogenic to humans following ingestion and that there is insufficient information to determine whether it will be carcinogenic to humans following inhalation exposure.

How can barium affect children?

We do not know whether children will be more or less sensitive than adults to barium toxicity. A study in rats that swallowed barium found a decrease in newborn body weight; we do not know if a similar effect would be seen in humans.

How can families reduce the risks of exposure to barium?

The greatest potential source of barium exposure is through food and drinking water. However, the amount of barium in foods and drinking water are typically too low to be of concern.

Is there a medical test to determine whether I've been exposed to barium?

There is no routine medical test to determine whether you have been exposed to barium. Doctors can measure barium in body tissues and fluids, such as bones, blood, urine, and feces, using very complex instruments. These tests cannot be used to predict the extent of the exposure or potential health effects.

The geometric mean barium level measured in the U.S. general population aged 6 and older is reported by the Centers for Disease Control and Prevention (CDC) as 1.44 μg/g creatinine (measured in urine).

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 2.0 milligrams of barium per liter of drinking water (2.0 mg/L), which is the same as 2 ppm.

The Occupational Safety and Health Administration (OSHA) has set Permissible Exposure Limits (PELs) of 0.5 milligrams of soluble barium compounds per cubic meter of workplace air (0.5 mg/m^3) for 8 hour shifts and 40 hour work weeks. The OSHA limits for barium sulfate dust are 15 mg/m^3 of total dust and 5 mg/m^3 for respirable fraction.

The National Institute for Occupational Safety and Health (NIOSH) has set Recommended Exposure Limits (RELs) of 0.5 mg/m^3 for soluble barium compounds. The NIOSH has set RELs of 10 mg/m^3 (total dust) for barium sulfate and 5 mg/m^3 (respirable fraction).

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2007. Toxicological Profile for Barium and Compounds (Update). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Environmental Medicine, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-800-232-4636, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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CARBON TETRACHLORIDE

CAS # 56-23-5

Division of Toxicology ToxFAQs™ **August 2005**

This fact sheet answers the most frequently asked health questions (FAQs) about carbon tetrachloride. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Carbon tetrachloride does not occur naturally. Exposure to this substance results mostly from breathing air, drinking water, or coming in contact with soil that is contaminated with it. Exposure to very high amounts of carbon tetrachloride can damage the liver, kidneys, and nervous system. Carbon tetrachloride can cause cancer in animals. Carbon tetrachloride has been found in at least 425 of the 1,662 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is carbon tetrachloride?

Carbon tetrachloride is a manufactured chemical that does not occur naturally. It is a clear liquid with a sweet smell that can be detected at low levels. It is also called carbon chloride, methane tetrachloride, perchloromethane, tetrachloroethane, or benziform.

Carbon tetrachloride is most often found in the air as a colorless gas. It is not flammable and does not dissolve in water very easily. It was used in the production of refrigeration fluid and propellants for aerosol cans, as a pesticide, as a cleaning fluid and degreasing agent, in fire extinguishers, and in spot removers. Because of its harmful effects, these uses are now banned and it is only used in some industrial applications.

What happens to carbon tetrachloride when it enters the environment?

- ❏ It moves very quickly into the air upon release, so most of it is in the air.
- ❏ It evaporates quickly surface water.
- ❏ Only a small amount sticks to soil particles; the rest evaporates or moves into the groundwater.
- ❏ It is very stable in air (lifetime 30-100 years).
- ❏ It can be broken down or transformed in soil and water within several days.
- ❏ When it does break down, it forms chemicals that can destroy ozone in the upper atmosphere.
- ❏ It does not build up in animals. We do not know if it build up in plants.

How might I be exposed to carbon tetrachloride?

- ❏ Breathing contaminated air near manufacturing plants or waste sites.
- ❏ Breathing workplace air when it is used.
- ❏ Drinking contaminated water near manufacturing plants and waste sites.
- ❏ Breathing contaminated air and skin contact with water while showering or cooking with contaminated water.
- ❏ Swimming or bathing in contaminated water.
- ❏ Contact with or eating contaminated soil (pica child) at waste sites.

How can carbon tetrachloride affect my health?

High exposure to carbon tetrachloride can cause liver, kidney, and central nervous system damage. These effects can occur after ingestion or breathing carbon tetrachloride, and possibly from exposure to the skin. The liver is especially sensitive to carbon tetrachloride because it enlarges and cells are damaged or destroyed. Kidneys also are damaged, causing a build up of wastes in the blood. If exposure is low and brief, the liver and kidneys can repair the damaged cells and function normally again. Effects of carbon tetrachloride are more severe in persons who drink large amounts of alcohol.

If exposure is very high, the nervous system, including the brain, is affected. People may feel intoxicated and experience headaches, dizziness, sleepiness, and nausea and vomiting. These effects may subside if exposure is stopped, but in severe cases, coma and even death may occur.

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There have been no studies of the effects of carbon tetrachloride on reproduction in humans, but studies in rats showed that long-term inhalation may cause decreased fertility.

How likely is carbon tetrachloride to cause cancer?

Studies in humans have not been able to determine whether or not carbon tetrachloride can cause cancer because usually there has been exposure to other chemicals at the same time. Swallowing or breathing carbon tetrachloride for years caused liver tumors in animals. Mice that breathed carbon tetrachloride also developed tumors of the adrenal gland. The Department of Health and Human Services (DHHS) has determined that carbon tetrachloride may reasonably be anticipated to be a carcinogen. The International Agency for Research on Cancer (IARC) has determined that carbon tetrachloride is possibly carcinogenic to humans, whereas the EPA determined that carbon tetrachloride is a probable human carcinogen.

How can carbon tetrachloride affect children?

The health effects of carbon tetrachloride have not been studied in children, but they are likely to be similar to those seen in adults exposed to the chemical. We do not know whether children differ from adults in their susceptibility to carbon tetrachloride.

A few survey-type studies suggest that maternal drinking water exposure to carbon tetrachloride might possibly be related to certain birth defects. Studies in animals showed that carbon tetrachloride can cause early fetal deaths, but did not cause birth defects. A study with human breast milk in a test tube suggested that it would be possible for carbon tetrachloride to pass from the maternal circulation to breast milk, but there is no direct demonstration of this occurring.

How can families reduce the risks of exposure to carbon tetrachloride?

❑ Discard any product that contains carbon tetrachloride that you may have at home and may have used in the past.

❑ Household chemicals should be stored out of the reach of children in their original containers.

❑ Sometimes older children sniff household chemical products to get high. Talk to your children about the dangers of sniffing chemicals.

Is there a medical test to determine whether I've been exposed to carbon tetrachloride?

Several sensitive and specific tests are available to measure carbon tetrachloride in exposed persons. The most convenient way is simply to measure carbon tetrachloride in the exhaled air. Carbon tetrachloride also can be measured in blood, fat, or other tissues. These tests are not usually done in the doctor's office because they require special equipment. Although these tests can show that a person has been exposed to carbon tetrachloride, the results cannot be used to reliably predict whether any adverse health effect might result. Because carbon tetrachloride leaves the body fairly quickly, these methods are best suited to detecting exposures that have occurred within the last several days.

Has the federal government made recommendations to protect human health?

The EPA has set a limit for carbon tetrachloride in drinking water of 5 parts of carbon tetrachloride per billion parts of water (5 ppb). The EPA has also set limits on how much carbon tetrachloride can be released from an industrial plant into waste water and is preparing to set limits on how much carbon tetrachloride can escape from an industrial plant into outside air.

The Occupational Safety and Health Administration (OSHA) set a limit of 10 ppm for carbon tetrachloride in workplace air for an 8-hour workday, 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2005. Toxicological Profile for Carbon Tetrachloride (Update). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-0093. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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CHROMIUM

CAS # 7440-47-3

Division of Toxicology and Environmental Medicine ToxFAQs™ September 2008

This fact sheet answers the most frequently asked health questions (FAQs) about chromium. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to chromium occurs from ingesting contaminated food or drinking water or breathing contaminated workplace air. Chromium(VI) at high levels can damage the nose and cause cancer. Ingesting high levels of chromium(VI) may result in anemia or damage to the stomach or intestines. Chromium(III) is an essential nutrient. Chromium has been found in at least 1,127 of the 1,669 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is chromium?

Chromium is a naturally occurring element found in rocks, animals, plants, and soil. It can exist in several different forms. Depending on the form it takes, it can be a liquid, solid, or gas. The most common forms are chromium(0), chromium(III), and chromium(VI). No taste or odor is associated with chromium compounds.

The metal chromium, which is the chromium(0) form, is used for making steel. Chromium(VI) and chromium(III) are used for chrome plating, dyes and pigments, leather tanning, and wood preserving.

What happens to chromium when it enters the environment?

❑ Chromium can be found in air, soil, and water after release from the manufacture, use, and disposal of chromium-based products, and during the manufacturing process.
❑ Chromium does not usually remain in the atmosphere, but is deposited into the soil and water .
❑ Chromium can easily change from one form to another in water and soil, depending on the conditions present.
❑ Fish do not accumulate much chromium in their bodies from water.

How might I be exposed to chromium?

❑ Eating food containing chromium(III).
❑ Breathing contaminated workplace air or skin contact during use in the workplace.
❑ Drinking contaminated well water.
❑ Living near uncontrolled hazardous waste sites containing chromium or industries that use chromium.

How can chromium affect my health?

Chromium(III) is an essential nutrient that helps the body use sugar, protein, and fat.

Breathing high levels of chromium(VI) can cause irritation to the lining of the nose, nose ulcers, runny nose, and breathing problems, such as asthma, cough, shortness of breath, or wheezing. The concentrations of chromium in air that can cause these effects may be different for different types of chromium compounds, with effects occurring at much lower concentrations for chromium(VI) compared to chromium(III).

The main health problems seen in animals following ingestion of chromium(VI) compounds are irritation and ulcers in the stomach and small intestine and anemia. Chromium(III) compounds are much less toxic and do not appear to cause these problems.

Sperm damage and damage to the male reproductive system have also been seen in laboratory animals exposed to chromium(VI).

Skin contact with certain chromium(VI) compounds can cause skin ulcers. Some people are extremely sensitive to chromium(VI) or chromium(III). Allergic reactions consisting of severe redness and swelling of the skin have been noted.

How likely is chromium to cause cancer?

The Department of Health and Human Services (DHHS), the International Agency for Reseach on Cancer (IARC), and the EPA have determined that chromium(VI) compounds are known human carcinogens. In workers, inhalation of chromium(VI) has been shown to cause lung cancer. Chromium(VI) also causes lung cancer in animals. An increase in stomach tumors was observed in humans and animals exposed to chromium(VI) in drinking water.

How can chromium affect children?

It is likely that health effects seen in children exposed to high amounts of chromium will be similar to the effects seen in adults.

We do not know if exposure to chromium will result in birth defects or other developmental effects in people. Some developmental effects have been observed in animals exposed to chromium(VI).

How can families reduce the risks of exposure to chromium?

❑ Children should avoid playing in soils near uncontrolled hazardous waste sites where chromium may have been discarded.

❑ Chromium is a component of tobacco smoke. Avoid smoking in enclosed spaces like inside the home or car in order to limit exposure to children and other family members.

❑ Although chromium(III) is an essential nutrient, you should avoid excessive use of dietary supplements containing chromium.

Is there a medical test to determine whether I've been exposed to chromium?

Since chromium(III) is an essential element and naturally occurs in food, there will always be some level of chromium in your body. Chromium can be measured in hair, urine, and blood.

Higher than normal levels of chromium in blood or urine may indicate that a person has been exposed to chromium. However , increases in blood and urine chromium levels cannot be used to predict the kind of health effects that might develop from that exposure.

Has the federal government made recommendations to protect human health?

The EPA has determined that exposure to chromium in drinking water at concentrations of 1 mg/L for up to 10 days is not expected to cause any adverse effects in a child.

The FDA has determined that the chromium concentration in bottled drinking water should not exceed 1 mg/L.

The Occupational Health and Safety Administration (OSHA) has limited workers' exposure to an average of 0.0005 mg/m^3 chromium(VI), 0.5 mg/m^3 chromium(III), and 1.0 mg/m^3 chromium(0) for an 8-hour workday, 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2008. Toxicological Profile for Chromium (Draft for Public Comment). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

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COPPER

CAS # 7440-50-8

Division of Toxicology ToxFAQs™ September 2002

This fact sheet answers the most frequently asked health questions (FAQs) about copper. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Copper is a reddish metal that occurs naturally in the environment. It also occurs naturally in plants and animals. Low levels of copper are essential for maintaining good health. High levels can cause harmful effects such as irritation of the nose, mouth and eyes, vomiting, diarrhea, stomach crumps, and nausea. Copper has been found in at least 884 of the 1,613 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is copper?

Copper is a reddish metal that occurs naturally in rocks, soil, water, and air. Copper also occurs naturally in plants and animals.

Metallic copper can be easily molded or shaped. Metallic copper can be found in the U.S. penny, electrical wiring, and some water pipes. Metallic copper is also found in mixtures (called alloys) with other metals such as brass and bronze. Copper is also found as part of other compounds forming salts. Copper salts occur naturally, but are also manufactured. The most common copper salt is copper sulfate. Most copper compounds are blue-green in color. Copper compounds are commonly used in agriculture to treat plant diseases like mildew, for water treatment and, as preservatives for wood, leather, and fabrics.

What happens to copper when it enters the environment?

❑ Copper can enter the environment from the mining of copper and other metals and from factories that make or use metallic copper or copper compounds.

❑ It can also enter the environment through domestic waste water, combustion of fossil fuels and wastes, wood production, phosphate fertilizer production, and natural sources (e.g., windblown dust from soils, volcanoes, decaying vegetation, forest fires, and sea spray).

❑ Copper in soil strongly attaches to organic material and minerals.

❑ Copper that dissolves in water becomes rapidly bound to particles suspended in the water.

❑ Copper does not typically enter groundwater.

❑ Copper carried by particles emitted from smelters and ore processing plants is carried back to the ground by gravity or in rain or snow.

❑ Copper does not break down in the environment.

How might I be exposed to copper?

❑ Breathing air, drinking water, eating food, and by skin contact with soil, water, or other copper-containing substances.

❑ Some copper in the environment can be taken up by plants and animals.

❑ Higher exposure may occur if your water is corrosive and you have copper plumbing and brass water fixtures. ❑ You may be exposed to higher amounts of copper if you drink water or swim in lakes or reservoirs recently treated with copper to control algae or receive cooling water from a power plant that may have high amounts of dissolved copper.

❑ Using some garden products (e.g., fungicides) to control plant diseases.

❑ Living near bronze and brass production facilities may expose you to higher copper levels in soil.

❑ You may breathe copper-containing dust or have skin contact if you work in the industry of mining copper or

processing the ore. You may breathe high levels if you grind or weld copper metal.

How can copper affect my health?

Copper is essential for good health, but high amounts can be harmful. Long-term exposure to copper dust can irritate your nose, mouth, and eyes, and cause headaches, dizziness, nausea, and diarrhea.

Drinking water with higher than normal levels of copper may cause vomiting, diarrhea, stomach cramps, and nausea. Intentionally high intakes of copper can cause liver and kidney damage and even death.

How likely is copper to cause cancer?

We do not know whether copper can cause cancer in humans. The EPA has determined that copper is not classifiable as to carcinogenicity.

How can copper affect children?

Exposure to high levels of copper will result in the same type of effects in children and adults. Studies in animals suggest that the young children may have more severe effects than adults; we do not know if this would also be true in humans. There is a very small percentage of infants and children who are unusually sensitive to copper.

We do not know if copper can cause birth defects or other developmental effects in humans. Studies in animals suggest that ingestion of high levels of copper may cause a decrease in fetal growth.

How can families reduce the risk of exposure to copper?

❑ The greatest potential source of copper exposure is through drinking water, especially in water that is first drawn in the morning after sitting in copper pipes and brass faucets overnight.

❑ To reduce exposure, run the water for at least 15-30 seconds before using it.

❑ If you are exposed to copper at work, you may carry copper home on your skin, clothes, or tools. You can avoid this by showering, and changing clothing before leaving work, and your work clothes should be kept separate from other clothes and laundered separately.

Is there a medical test to show whether I've been exposed to copper?

Copper is normally found in all tissues of the body, blood, urine, feces, hair, and nails. High levels of copper in these samples can show that you have been exposed to higher than normal levels of copper. Tests to measure copper levels in the body are not routinely available at the doctor's office because they require special equipment. These tests cannot tell the extent of exposure or whether you will experience harmful effects.

Has the federal government made recommendations to protect human health?

The EPA has determined that drinking water should not contain more than 1.3 milligrams of copper per liter of water (1.3 mg/L).

The Occupational Safety and Health Administration (OSHA) has set a limit of 0.1 mg per cubic meter (0.1 mg/m^3) of copper fumes (vapor generated from heating copper) and 1 mg/m^3 of copper dusts (fine metallic copper particles) and mists (aerosol of soluble copper) in workroom air during an 8-hour work shift, 40-hour workweek.

The Food and Nutrition Board of the Institute of Medicine recommends dietary allowances (RDAs) of 340 micrograms (340 µg) of copper per day for children aged 1-3 years, 440 µg/day for children aged 4-8 years, 700 µg/day for children aged 9-13 years, 890 µg/day for children aged 14-18 years, and 900 µg/day for adults.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2002. Toxicological Profile for Copper (Draft for Public Comment). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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DDT, DDE, AND DDD

CAS # 50-29-3, 72-55-9, 72-54-8

Division of Toxicology ToxFAQs™ **September 2002**

This fact sheet answers the most frequently asked health questions (FAQs) about DDT, DDE, and DDD. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to DDT, DDE, and DDD occurs mostly from eating foods containing small amounts of these compounds, particularly meat, fish and poultry. High levels of DDT can affect the nervous system causing excitability, tremors and seizures. In women, DDE can cause a reduction in the duration of lactation and an increased chance of having a premature baby. DDT, DDE, and DDD have been found in at least 441 of the 1,613 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are DDT, DDE, and DDD?

DDT (dichlorodiphenyltrichloroethane) is a pesticide once widely used to control insects in agriculture and insects that carry diseases such as malaria. DDT is a white, crystalline solid with no odor or taste. Its use in the U.S. was banned in 1972 because of damage to wildlife, but is still used in some countries.

DDE (dichlorodiphenyldichloroethylene) and DDD (dichlorodiphenyldichloroethane) are chemicals similar to DDT that contaminate commercial DDT preparations. DDE has no commercial use. DDD was also used to kill pests, but its use has also been banned. One form of DDD has been used medically to treat cancer of the adrenal gland.

What happens to DDT, DDE, and DDD when they enter the environment?

❑ DDT entered the environment when it was used as a pesticide; it still enters the environment due to current use in other countries.

❑ DDE enters the environment as contaminant or breakdown product of DDT; DDD also enters the environment as a breakdown product of DDT.

❑ DDT, DDE, and DDD in air are rapidly broken down by sunlight. Half of what's in air breaks down within 2 days.

❑ They stick strongly to soil; most DDT in soil is broken down slowly to DDE and DDD by microorganisms; half the DDT in soil will break down in 2-15 years, depending on the type of soil.

❑ Only a small amount will go through the soil into groundwater; they do not dissolve easily in water.

❑ DDT, and especially DDE, build up in plants and in fatty tissues of fish, birds, and other animals.

How might I be exposed to DDT, DDE, and DDD?

❑ Eating contaminated foods, such as root and leafy vegetables, fatty meat, fish, and poultry, but levels are very low.

❑ Eating contaminated imported foods from countries that still allow the use of DDT to control pests.

❑ Breathing contaminated air or drinking contaminated water near waste sites and landfills that may contain higher levels of these chemicals.

❑ Infants fed on breast milk from mothers who have been exposed.

❑ Breathing or swallowing soil particles near waste sites or landfills that contain these chemicals.

How can DDT, DDE, and DDD affect my health?

DDT affects the nervous system. People who accidentally swallowed large amounts of DDT became excitable and had tremors and seizures. These effects went away after the exposure stopped. No effects were seen in people who took small daily doses of DDT by capsule for 18 months.

A study in humans showed that women who had high amounts of a form of DDE in their breast milk were unable to

breast feed their babies for as long as women who had little DDE in the breast milk. Another study in humans showed that women who had high amounts of DDE in breast milk had an increased chance of having premature babies.
In animals, short-term exposure to large amounts of DDT in food affected the nervous system, while long-term exposure to smaller amounts affected the liver. Also in animals, short-term oral exposure to small amounts of DDT or its breakdown products may also have harmful effects on reproduction.

How likely are DDT, DDE, and DDD to cause cancer?

Studies in DDT-exposed workers did not show increases in cancer. Studies in animals given DDT with the food have shown that DDT can cause liver cancer.
The Department of Health and Human Services (DHHS) determined that DDT may reasonable be anticipated to be a human carcinogen. The International Agency for Research on Cancer (IARC) determined that DDT may possibly cause cancer in humans. The EPA determined that DDT, DDE, and DDD are probable human carcinogens.

How can DDT, DDE, and DDD affect children?

There are no studies on the health effects of children exposed to DDT, DDE, or DDD. We can assume that children exposed to large amounts of DDT will have health effects similar to the effects seen in adults. However, we do not know whether children differ from adults in their susceptibility to these substances.
There is no evidence that DDT, DDE, or DDD cause birth defects in people. A study showed that teenage boys whose mothers had higher DDE amounts in the blood when they were pregnant were taller than those whose mothers had lower DDE levels. However, a different study found the opposite in preteen girls. The reason for the discrepancy between these studies is unknown.
Studies in rats have shown that DDT and DDE can mimic the action of natural hormones and in this way affect the development of the reproductive and nervous systems. Puberty was delayed in male rats given high amounts of DDE as juveniles. This could possibly happen in humans. A study in mice showed that exposure to DDT during the first weeks of life may cause neurobehavioral problems later in life.

How can families reduce the risk of exposure to DDT,DDE, and DDE?

❑ Most families will be exposed to DDT by eating food or drinking liquids contaminated with small amounts of DDT.
❑ Cooking will reduce the amount of DDT in fish.
❑ Washing fruit and vegetables will remove most DDT from their surface.
❑ Follow health advisories that tell you about consumption of fish and wildlife caught in contaminated areas.

Is there a medical test to show whether I've been exposed to DDT, DDE, and DDD?

Laboratory tests can detect DDT, DDE, and DDD in fat, blood, urine, semen, and breast milk. These tests may show low, moderate, or excessive exposure to these compounds, but cannot tell the exact amount you were exposed to, or whether you will experience adverse effects. These tests are not routinely available at the doctor's office because they require special equipment.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) sets a limit of 1 milligram of DDT per cubic meter of air (1 mg/m^3) in the workplace for an 8-hour shift, 40-hour workweek.
The Food and Drug Administration (FDA) has set limits for DDT, DDE, and DDD in foodstuff at or above which the agency will take legal action to remove the products from the market.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2002. Toxicological Profile for DDT/DDE/DDD (Update). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

Lead - ToxFAQs™

What is lead?

Lead is a metal found naturally in the earth's crust. It can be found in all parts of our environment, including air, water, and soil. Lead can combine with other chemicals to make different compounds.

Lead is used in the production of batteries, ammunition, and metal products (solder and pipes). Because of health concerns, the use of lead in paints, ceramic products, caulking, and pipe solder has been dramatically reduced. The use of lead as an additive to automobile gasoline was banned in 1996 in the United States.

What happens to lead in the environment?

- Lead is an element, so it does not break down.
- When lead is released into the air, it may be transported long distances before it lands and stays on the ground.
- Once on the ground, lead can often stick to soil particles.
- Lead in soil can get into groundwater, but the amount of lead that moves into groundwater will depend on the lead compound and soil type.

How can I be exposed to lead?

Lead can cause health problems in almost every organ and system in your body.

- Eating food or drinking water that contains lead.
- Drinking water from pipes that were soldered with lead can cause exposure.
- Spending time or living in homes with lead-based paints can result in exposure when the paint breaks down and forms dust, which can get on your hands, or into your mouth and nose and be swallowed.
- Spending time in areas where the soil is contaminated with lead.
- Working in a job where lead is used or participating in certain hobbies where lead is used, such as making stained glass.
- Using healthcare products from other countries, alternative treatments, or folk remedies.

How can lead affect my health?

The effects of lead are the same whether it enters the body by breathing it in or eating it. Lead can affect almost every organ and system in your body. The nervous system is the main target for lead poisoning in children and adults. Long-term exposure can result in decreased learning, memory, and attention, and weakness in fingers, wrists, or ankles. Lead exposure can cause anemia (low iron in the blood) and damage to the kidneys. It can also cause increases in blood pressure, particularly in middle-aged and older individuals. Exposure to high lead levels can severely damage the brain and kidneys and can cause death. In pregnant women, exposure to high levels of lead may cause a miscarriage. In men, it can cause damage to reproductive organs.

Lead

How can lead affect children?

Children are more vulnerable to lead poisoning than adults because their nervous system is still developing. Children can be exposed to lead in their environment and before birth from lead in their mother's body. At lower levels of exposure, lead can decrease mental development, especially learning, intelligence, and behavior. Physical growth may also be decreased. A child who swallows large amounts of lead may develop anemia, severe stomachache, muscle weakness, and brain damage. Exposure to lead during pregnancy can also result in premature births. Some effects of lead poisoning in a child may continue into adulthood.

Can lead cause cancer?

Several agencies and organizations both in the United States and internationally have reviewed studies and made an assessment about whether lead can cause cancer.

- The Department of Health and Human Services (HHS) has determined that lead and lead compounds are reasonably anticipated to be human carcinogens (causing cancer in people).
- The U.S. Environmental Protection Agency (EPA) has classified lead as a probable human carcinogen.
- The International Agency for Research on Cancer (IARC) has determined that inorganic lead is probably carcinogenic to humans, and that there is insufficient information to determine whether organic lead compounds will cause cancer in humans.

Can I get a medical test to check for lead?

A blood test is available to measure the amount of lead in your blood. Blood tests are commonly used to screen children for lead poisoning. Your doctor can draw blood samples and send them to appropriate laboratories for analysis. If you think you or anyone in your family has been exposed to lead, contact your doctor, nurse, or poison control center.

How can I protect my family from lead exposure?

- Avoid exposure to sources of lead.
- Do not allow children to chew or mouth surfaces that may have been painted with lead-based paint.
- If your home contains lead-based paint (built before 1978), or if you live in an area contaminated with lead, wash children's hands and faces often to remove lead dusts and soil, and regularly clean the house to remove lead dust and lead tracked in soil.
- Certain water pipes may contain lead, so if you know that pipes have lead solder, you should avoid drinking from that source.
- Check for lead in some products such as toys and jewelry and avoid such products.
- Lead is sometimes in candies imported from other countries or traditional home remedies; find out if yours has any lead and avoid using these products or giving them to children.
- You can learn more about preventing lead poisoning here: https://www.cdc.gov/nceh/lead/faqs/lead-faqs.htm

Want more information?

Call **CDC-INFO** at 1-800-232-4636, or submit your question online at https://wwwn.cdc.gov/dcs/ContactUs/Form

Go to ATSDR's Toxicological Profile for Lead

CDC Lead Poisoning Prevention Program https://www.cdc.gov/nceh/lead/default.htm

Environmental Protection Agency https://www.epa.gov/lead/protect-your-family-exposures-lead

Go to ATSDR's Toxic Substances Portal: https://wwwn.cdc.gov/TSP/index.aspx

If you have any more questions or concerns, you can also find & contact your ATSDR Regional Representative at http://www.atsdr.cdc.gov/DRO/dro_org.html

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

MANGANESE

CAS # 7439-96-5

Division of Toxicology and Environmental Medicine ToxFAQs™ **September 2008**

This fact sheet answers the most frequently asked health questions (FAQs) about manganese. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Manganese is a trace element and eating a small amount from food or water is needed to stay healthy. Exposure to excess levels of manganese may occur from breathing air, particularly where manganese is used in manufacturing, and from drinking water and eating food. At high levels, it can cause damage to the brain. Manganese has been found in at least 869 of the 1,669 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is manganese?

Manganese is a naturally occurring metal that is found in many types of rocks. Pure manganese is silver-colored, but does not occur naturally. It combines with other substances such as oxygen, sulfur, or chlorine. Manganese occurs naturally in most foods and may be added to some foods.

Manganese is used principally in steel production to improve hardness, stiffness, and strength. It may also be used as an additive in gasoline to improve the octane rating of the gas.

What happens to manganese when it enters the environment?

❑ Manganese can be released to the air, soil, and water from the manufacture, use, and disposal of manganese-based products.

❑ Manganese cannot break down in the environment. It can only change its form or become attached to or separated from particles.

❑ In water, manganese tends to attach to particles in the water or settle into the sediment.

❑ The chemical state of manganese and the type of soil determine how fast it moves through the soil and how much is retained in the soil.

❑ The manganese-containing gasoline additive may degrade in the environment quickly when exposed to sunlight, releasing manganese.

How might I be exposed to manganese?

❑ The primary way you can be exposed to manganese is by eating food or manganese-containing nutritional supplements. Vegetarians who consume foods rich in manganese such as grains, beans and nuts, as well as heavy tea drinkers, may have a higher intake of manganese than the average person.

❑ Certain occupations like welding or working in a factory where steel is made may increase your chances of being exposed to high levels of manganese.

❑ Manganese is routinely contained in groundwater, drinking water, and soil at low levels. Drinking water containing manganese or swimming or bathing in water containing manganese may expose you to low levels of this chemical.

How can manganese affect my health?

Manganese is an essential nutrient, and eating a small amount of it each day is important to stay healthy.

The most common health problems in workers exposed to high levels of manganese involve the nervous system. These health effects include behavioral changes and other nervous system effects, which include movements that may become slow and clumsy. This combination of symptoms when sufficiently severe is referred to as "manganism". Other less severe nervous system effects such as slowed hand movements have been observed in

some workers exposed to lower concentrations in the work place.

Nervous system and reproductive effects have been observed in animals after high oral doses of manganese.

How likely is manganese to cause cancer?

The EPA concluded that existing scientific information cannot determine whether or not excess manganese can cause cancer.

How can manganese affect children?

Studies in children have suggested that extremely high levels of manganese exposure may produce undesirable effects on brain development, including changes in behavior and decreases in the ability to learn and remember. We do not know for certain that these changes were caused by manganese alone. We do not know if these changes are temporary or permanent. We do not know whether children are more sensitive than adults to the effects of manganese, but there is some indication from experiments in laboratory animals that they may be.

Studies of manganese workers have not found increases in birth defects or low birth weight in their offspring. No birth defects were observed in animals exposed to manganese.

How can families reduce the risks of exposure to manganese?

❏ Children are not likely to be exposed to harmful amounts of manganese in the diet. However, higher-than-usual amounts of manganese may be absorbed if their diet is low in iron. It is important to provide your child with a well-balanced diet.

❏ Workers exposed to high levels of airborne manganese in certain occupational settings may accumulate manganese dust on their work clothes. Manganese-contaminated work clothing should be removed before getting into your car or entering your home to help reduce the exposure hazard for yourself and your family.

Is there a medical test to determine whether I've been exposed to manganese?

Several tests are available to measure manganese in blood, urine, hair, or feces. Because manganese is normally present in our body, some is always found in tissues or fluids.

Because excess manganese is usually removed from the body within a few days, past exposures are difficult to measure with common laboratory tests.

Has the federal government made recommendations to protect human health?

The EPA has determined that exposure to manganese in drinking water at concentrations of 1 mg/L for up to 10 days is not expected to cause any adverse effects in a child.

The EPA has established that lifetime exposure to 0.3 mg/L manganese is not expected to cause any adverse effects.

The FDA has determined that the manganese concentration in bottled drinking water should not exceed 0.05 mg/L.

The Occupational Health and Safety Administration (OSHA) has established a ceiling limit (concentration that should not be exceeded at any time during exposure) of 5 mg/m^3 for manganese in workplace air.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2008. Toxicological Profile for Manganese (Draft for Public Comment). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Environmental Medicine, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-800-232-4636, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

MERCURY
CAS # 7439-97-6

This fact sheet answers the most frequently asked health questions (FAQs) about mercury. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to mercury occurs from breathing contaminated air, ingesting contaminated water and food, and having dental and medical treatments. Mercury, at high levels, may damage the brain, kidneys, and developing fetus. This chemical has been found in at least 714 of 1,467 National Priorities List sites identified by the Environmental Protection Agency.

What is mercury?

(Pronounced mŭr′kyə-rē)

Mercury is a naturally occurring metal which has several forms. The metallic mercury is a shiny, silver-white, odorless liquid. If heated, it is a colorless, odorless gas.

Mercury combines with other elements, such as chlorine, sulfur, or oxygen, to form inorganic mercury compounds or "salts," which are usually white powders or crystals. Mercury also combines with carbon to make organic mercury compounds. The most common one, methylmercury, is produced mainly by microscopic organisms in the water and soil. More mercury in the environment can increase the amounts of methylmercury that these small organisms make.

Metallic mercury is used to produce chlorine gas and caustic soda, and is also used in thermometers, dental fillings, and batteries. Mercury salts are sometimes used in skin lightening creams and as antiseptic creams and ointments.

What happens to mercury when it enters the environment?

- Inorganic mercury (metallic mercury and inorganic mercury compounds) enters the air from mining ore deposits, burning coal and waste, and from manufacturing plants.
- It enters the water or soil from natural deposits, disposal of wastes, and volcanic activity.
- Methylmercury may be formed in water and soil by small organisms called bacteria.
- Methylmercury builds up in the tissues of fish. Larger and older fish tend to have the highest levels of mercury.

How might I be exposed to mercury?

- Eating fish or shellfish contaminated with methylmercury.
- Breathing vapors in air from spills, incinerators, and industries that burn mercury-containing fuels.
- Release of mercury from dental work and medical treatments.
- Breathing contaminated workplace air or skin contact during use in the workplace (dental, health services, chemical, and other industries that use mercury).
- Practicing rituals that include mercury.

How can mercury affect my health?

The nervous system is very sensitive to all forms of mercury. Methylmercury and metallic mercury vapors are more harmful than other forms, because more mercury in these forms reaches the brain. Exposure to high levels of metallic, inorganic, or organic mercury can permanently damage the brain, kidneys, and developing fetus. Effects on brain functioning may result in irritability, shyness, tremors, changes in vision or hearing, and memory problems.

Short-term exposure to high levels of metallic mercury vapors may cause effects including lung damage, nausea,

vomiting, diarrhea, increases in blood pressure or heart rate, skin rashes, and eye irritation.

How likely is mercury to cause cancer?

There are inadequate human cancer data available for all forms of mercury. Mercuric chloride has caused increases in several types of tumors in rats and mice, and methylmercury has caused kidney tumors in male mice. The EPA has determined that mercuric chloride and methylmercury are possible human carcinogens.

How can mercury affect children?

Very young children are more sensitive to mercury than adults. Mercury in the mother's body passes to the fetus and may accumulate there. It can also can pass to a nursing infant through breast milk. However, the benefits of breast feeding may be greater than the possible adverse effects of mercury in breast milk.

Mercury's harmful effects that may be passed from the mother to the fetus include brain damage, mental retardation, incoordination, blindness, seizures, and inability to speak. Children poisoned by mercury may develop problems of their nervous and digestive systems, and kidney damage.

How can families reduce the risk of exposure to mercury?

Carefully handle and dispose of products that contain mercury, such as thermometers or fluorescent light bulbs. Do not vacuum up spilled mercury, because it will vaporize and increase exposure. If a large amount of mercury has been spilled, contact your health department. Teach children not to play with shiny, silver liquids.

Properly dispose of older medicines that contain mercury. Keep all mercury-containing medicines away from children.

Pregnant women and children should keep away from rooms where liquid mercury has been used.

Learn about wildlife and fish advisories in your area from your public health or natural resources department.

Is there a medical test to show whether I've been exposed to mercury?

Tests are available to measure mercury levels in the body. Blood or urine samples are used to test for exposure to metallic mercury and to inorganic forms of mercury. Mercury in whole blood or in scalp hair is measured to determine exposure to methylmercury. Your doctor can take samples and send them to a testing laboratory.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 2 parts of mercury per billion parts of drinking water (2 ppb).

The Food and Drug Administration (FDA) has set a maximum permissible level of 1 part of methylmercury in a million parts of seafood (1 ppm).

The Occupational Safety and Health Administration (OSHA) has set limits of 0.1 milligram of organic mercury per cubic meter of workplace air (0.1 mg/m^3) and 0.05 mg/m^3 of metallic mercury vapor for 8-hour shifts and 40-hour work weeks.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological profile for mercury. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

METHYLENE CHLORIDE
CAS # 75-09-2

Division of Toxicology ToxFAQs™ **February 2001**

This fact sheet answers the most frequently asked health questions (FAQs) about methylene chloride. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to methylene chloride occurs mostly from breathing contaminated air, but may also occur through skin contact or by drinking contaminated water. Breathing in large amounts of methylene chloride can damage the central nervous system. Contact of eyes or skin with methylene chloride can result in burns. Methylene chloride has been found in at least 882 of 1,569 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is methylene chloride?

Methylene chloride is a colorless liquid with a mild, sweet odor. Another name for it is dichloromethane. Methylene chloride does not occur naturally in the environment.

Methylene chloride is used as an industrial solvent and as a paint stripper. It may also be found in some aerosol and pesticide products and is used in the manufacture of photographic film.

What happens to methylene chloride when it enters the environment?

❑ Methylene chloride is mainly released to the environment in air. About half of the methylene chloride in air disappears in 53 to 127 days.

❑ Methylene chloride does not easily dissolve in water, but small amounts may be found in drinking water.

❑ We do not expect methylene chloride to build up in plants or animals.

How might I be exposed to methylene chloride?

❑ The most likely way to be exposed to methylene chloride is by breathing contaminated air.

❑ Breathing the vapors given off by products containing methylene chloride. Exposure to high levels of methylene chloride is likely if methylene chloride or a product containing it is used in a room with inadequate ventilation.

How can methylene chloride affect my health?

If you breathe in large amounts of methylene chloride you may feel unsteady, dizzy, and have nausea and a tingling or numbness of your finger and toes. A person breathing smaller amounts of methylene chloride may become less attentive and less accurate in tasks requiring hand-eye coordination. Skin contact with methylene chloride causes burning and redness of the skin.

How likely is methylene chloride to cause cancer?

We do not know if methylene chloride can cause cancer in humans. An increased cancer risk was seen in mice

breathing large amounts of methylene chloride for a long time.

The World Health Organization (WHO) has determined that methylene chloride may cause cancer in humans.

The Department of Health and Human Services (DHHS) has determined that methylene chloride can be reasonably anticipated to be a cancer-causing chemical.

The EPA has determined that methylene chloride is a probable cancer-causing agent in humans.

How can methylene chloride affect children?

It is likely that health effects seen in children exposed to high amounts of methylene chloride will be similar to the effects seen in adults. We do not know if methylene chloride can affect the ability of people to have children or if it causes birth defects. Some birth defects have been seen in animals inhaling very high levels of methylene chloride.

How can families reduce the risk of exposure to methylene chloride?

❏ Families may be exposed to methylene chloride while using products such as paint removers. Such products should always be used in well-ventilated areas and skin contact should be avoided.
❏ Children should not be allowed to remain near indoor paint removal activities.

Is there a medical test to show whether I've been exposed to methylene chloride?

❏ Several tests can measure exposure to methylene chloride. These tests are not routinely available in your doctor's office.
❏ Methylene chloride can be detected in the air you breathe out and in your blood. These tests are only useful for detecting exposures that have occurred within a few days.
❏ It is also possible to measure carboxyhemoglobin (a chemical formed in the blood as methylene chloride breaks down in the body) in the blood or formic acid (a breakdown product of methylene chloride) in the urine. These tests are not specific for methylene chloride.

Has the federal government made recommendations to protect human health?

❏ The EPA requires that releases of methylene chloride of 1,000 pounds or more be reported to the federal government.
❏ The EPA recommends that exposure of children to methylene chloride be limited to less than 10 milligrams per liter of drinking water (10 mg/L) for 1 day or 2 mg/L for 10 days.
❏ The Food and Drug Administration (FDA) has established limits on the amounts of methylene chloride that can remain after processing of spices, hops extract, and decaffeinated coffee.
❏ The Occupational Safety and Health Administration (OSHA) has set limits of 25 parts methylene chloride per million parts of workplace air (25 ppm) for 8-hour shifts and 40-hour work weeks.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological Profile for methylene chloride. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

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POLYCHLORINATED BIPHENYLS

Division of Toxicology ToxFAQs™ **February 2001**

This fact sheet answers the most frequently asked health questions (FAQs) about polychlorinated biphenyls. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Polychlorinated biphenyls (PCBs) are a mixture of individual chemicals which are no longer produced in the United States, but are still found in the environment. Health effects that have been associated with exposure to PCBs include acne-like skin conditions in adults and neurobehavioral and immunological changes in children. PCBs are known to cause cancer in animals. PCBs have been found in at least 500 of the 1,598 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are polychlorinated biphenyls?

Polychlorinated biphenyls are mixtures of up to 209 individual chlorinated compounds (known as congeners). There are no known natural sources of PCBs. PCBs are either oily liquids or solids that are colorless to light yellow. Some PCBs can exist as a vapor in air. PCBs have no known smell or taste. Many commercial PCB mixtures are known in the U.S. by the trade name Aroclor.

PCBs have been used as coolants and lubricants in transformers, capacitors, and other electrical equipment because they don't burn easily and are good insulators. The manufacture of PCBs was stopped in the U.S. in 1977 because of evidence they build up in the environment and can cause harmful health effects. Products made before 1977 that may contain PCBs include old fluorescent lighting fixtures and electrical devices containing PCB capacitors, and old microscope and hydraulic oils.

What happens to PCBs when they enter the environment?

❑ PCBs entered the air, water, and soil during their manufacture, use, and disposal; from accidental spills and leaks during their transport; and from leaks or fires in products containing PCBs.

❑ PCBs can still be released to the environment from hazardous waste sites; illegal or improper disposal of industrial wastes and consumer products; leaks from old electrical transformers containing PCBs; and burning of some wastes in incinerators.

❑ PCBs do not readily break down in the environment and thus may remain there for very long periods of time. PCBs can travel long distances in the air and be deposited in areas far away from where they were released. In water, a small amount of PCBs may remain dissolved, but most stick to organic particles and bottom sediments. PCBs also bind strongly to soil.

❑ PCBs are taken up by small organisms and fish in water. They are also taken up by other animals that eat these aquatic animals as food. PCBs accumulate in fish and marine mammals, reaching levels that may be many thousands of times higher than in water.

How might I be exposed to PCBs?

❑ Using old fluorescent lighting fixtures and electrical devices and appliances, such as television sets and refrigerators, that were made 30 or more years ago. These items may leak small amounts of PCBs into the air when they get hot during operation, and could be a source of skin exposure.

❑ Eating contaminated food. The main dietary sources of PCBs are fish (especially sportfish caught in contaminated lakes or rivers), meat, and dairy products.

❑ Breathing air near hazardous waste sites and drinking contaminated well water.

❑ In the workplace during repair and maintenance of PCB transformers; accidents, fires or spills involving transformers, fluorescent lights, and other old electrical devices; and disposal of PCB materials.

How can PCBs affect my health?

The most commonly observed health effects in people exposed to large amounts of PCBs are skin conditions such as acne and rashes. Studies in exposed workers have shown changes in blood and urine that may indicate liver damage. PCB exposures in the general population are not likely to result in skin and liver effects. Most of the studies of health effects of PCBs in the general population examined children of mothers who were exposed to PCBs.

Animals that ate food containing large amounts of PCBs for short periods of time had mild liver damage and some died. Animals that ate smaller amounts of PCBs in food over several weeks or months developed various kinds of health effects, including anemia; acne-like skin conditions; and liver, stomach, and thyroid gland injuries. Other effects

of PCBs in animals include changes in the immune system, behavioral alterations, and impaired reproduction. PCBs are not known to cause birth defects.

How likely are PCBs to cause cancer?

Few studies of workers indicate that PCBs were associated with certain kinds of cancer in humans, such as cancer of the liver and biliary tract. Rats that ate food containing high levels of PCBs for two years developed liver cancer. The Department of Health and Human Services (DHHS) has concluded that PCBs may reasonably be anticipated to be carcinogens. The EPA and the International Agency for Research on Cancer (IARC) have determined that PCBs are probably carcinogenic to humans.

How can PCBs affect children?

Women who were exposed to relatively high levels of PCBs in the workplace or ate large amounts of fish contaminated with PCBs had babies that weighed slightly less than babies from women who did not have these exposures. Babies born to women who ate PCB-contaminated fish also showed abnormal responses in tests of infant behavior. Some of these behaviors, such as problems with motor skills and a decrease in short-term memory, lasted for several years. Other studies suggest that the immune system was affected in children born to and nursed by mothers exposed to increased levels of PCBs. There are no reports of structural birth defects caused by exposure to PCBs or of health effects of PCBs in older children. The most likely way infants will be exposed to PCBs is from breast milk. Transplacental transfers of PCBs were also reported In most cases, the benefits of breast-feeding outweigh any risks from exposure to PCBs in mother's milk.

How can families reduce the risk of exposure to PCBs?

❑ You and your children may be exposed to PCBs by eating fish or wildlife caught from contaminated locations. Certain states, Native American tribes, and U.S. territories have issued advisories to warn people about PCB-contaminated fish and fish-eating wildlife. You can reduce your family's exposure to PCBs by obeying these advisories.

❑ Children should be told not play with old appliances, electrical equipment, or transformers, since they may contain PCBs.

❑ Children should be discouraged from playing in the dirt near hazardous waste sites and in areas where there was a transformer fire. Children should also be discouraged from eating dirt and putting dirty hands, toys or other objects in their mouths, and should wash hands frequently.

❑ If you are exposed to PCBs in the workplace it is possible to carry them home on your clothes, body, or tools. If this is the case, you should shower and change clothing before leaving work, and your work clothes should be kept separate from other clothes and laundered separately.

Is there a medical test to show whether I've been exposed to PCBs?

Tests exist to measure levels of PCBs in your blood, body fat, and breast milk, but these are not routinely conducted. Most people normally have low levels of PCBs in their body because nearly everyone has been environmentally exposed to PCBs. The tests can show if your PCB levels are elevated, which would indicate past exposure to above-normal levels of PCBs, but cannot determine when or how long you were exposed or whether you will develop health effects.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 0.0005 milligrams of PCBs per liter of drinking water (0.0005 mg/L). Discharges, spills or accidental releases of 1 pound or more of PCBs into the environment must be reported to the EPA. The Food and Drug Administration (FDA) requires that infant foods, eggs, milk and other dairy products, fish and shellfish, poultry and red meat contain no more than 0.2-3 parts of PCBs per million parts (0.2-3 ppm) of food. Many states have established fish and wildlife consumption advisories for PCBs.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological profile for polychlorinated biphenyls (PCBs). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 404-498-0093. ToxFAQs™ Internet address is http://www.atsdr.cdc.gov/toxfaq.html . ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

TRICHLOROETHYLENE

CAS # 79-01-6

Division of Toxicology ToxFAQs™ **July 2003**

This fact sheet answers the most frequently asked health questions (FAQs) about trichloroethylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Trichloroethylene is a colorless liquid which is used as a solvent for cleaning metal parts. Drinking or breathing high levels of trichloroethylene may cause nervous system effects, liver and lung damage, abnormal heartbeat, coma, and possibly death. Trichloroethylene has been found in at least 852 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is trichloroethylene?

Trichloroethylene (TCE) is a nonflammable, colorless liquid with a somewhat sweet odor and a sweet, burning taste. It is used mainly as a solvent to remove grease from metal parts, but it is also an ingredient in adhesives, paint removers, typewriter correction fluids, and spot removers.

Trichloroethylene is not thought to occur naturally in the environment. However, it has been found in underground water sources and many surface waters as a result of the manufacture, use, and disposal of the chemical.

What happens to trichloroethylene when it enters the environment?

- Trichloroethylene dissolves a little in water, but it can remain in ground water for a long time.
- Trichloroethylene quickly evaporates from surface water, so it is commonly found as a vapor in the air.
- Trichloroethylene evaporates less easily from the soil than from surface water. It may stick to particles and remain for a long time.
- Trichloroethylene may stick to particles in water, which will cause it to eventually settle to the bottom sediment.
- Trichloroethylene does not build up significantly in plants and animals.

How might I be exposed to trichloroethylene?

- Breathing air in and around the home which has been contaminated with trichloroethylene vapors from shower water or household products such as spot removers and typewriter correction fluid.
- Drinking, swimming, or showering in water that has been contaminated with trichloroethylene.
- Contact with soil contaminated with trichloroethylene, such as near a hazardous waste site.
- Contact with the skin or breathing contaminated air while manufacturing trichloroethylene or using it at work to wash paint or grease from skin or equipment.

How can trichloroethylene affect my health?

Breathing small amounts may cause headaches, lung irritation, dizziness, poor coordination, and difficulty concentrating.

Breathing large amounts of trichloroethylene may cause impaired heart function, unconsciousness, and death. Breathing it for long periods may cause nerve, kidney, and liver damage.

ToxFAQs™ Internet address is http://www.atsdr.cdc.gov/toxfaq.html

Drinking large amounts of trichloroethylene may cause nausea, liver damage, unconsciousness, impaired heart function, or death.

Drinking small amounts of trichloroethylene for long periods may cause liver and kidney damage, impaired immune system function, and impaired fetal development in pregnant women, although the extent of some of these effects is not yet clear.

Skin contact with trichloroethylene for short periods may cause skin rashes.

How likely is trichloroethylene to cause cancer?

Some studies with mice and rats have suggested that high levels of trichloroethylene may cause liver, kidney, or lung cancer. Some studies of people exposed over long periods to high levels of trichloroethylene in drinking water or in workplace air have found evidence of increased cancer. Although, there are some concerns about the studies of people who were exposed to trichloroethylene, some of the effects found in people were similar to effects in animals.

In its 9th Report on Carcinogens, the National Toxicology Program (NTP) determined that trichloroethylene is "reasonably anticipated to be a human carcinogen." The International Agency for Research on Cancer (IARC) has determined that trichloroethylene is "probably carcinogenic to humans."

Is there a medical test to show whether I've been exposed to trichloroethylene?

If you have recently been exposed to trichloroethylene, it can be detected in your breath, blood, or urine. The breath test, if it is performed soon after exposure, can tell if you have been exposed to even a small amount of trichloroethylene.

Exposure to larger amounts is assessed by blood and urine tests, which can detect trichloroethylene and many of its breakdown products for up to a week after exposure. However, exposure to other similar chemicals can produce the same breakdown products, so their detection is not absolute proof of exposure to trichloroethylene. This test isn't available at most doctors' offices, but can be done at special laboratories that have the right equipment.

Has the federal government made recommendations to protect human health?

The EPA has set a maximum contaminant level for trichloroethylene in drinking water at 0.005 milligrams per liter (0.005 mg/L) or 5 parts of TCE per billion parts water.

The EPA has also developed regulations for the handling and disposal of trichloroethylene.

The Occupational Safety and Health Administration (OSHA) has set an exposure limit of 100 parts of trichloroethylene per million parts of air (100 ppm) for an 8-hour workday, 40-hour workweek.

Glossary

Carcinogenicity: The ability of a substance to cause cancer.
CAS: Chemical Abstracts Service.
Evaporate: To change into a vapor or gas.
Milligram (mg): One thousandth of a gram.
Nonflammable: Will not burn.
ppm: Parts per million.
Sediment: Mud and debris that have settled to the bottom of a body of water.
Solvent: A chemical that dissolves other substances.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Trichloroethylene (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs™ Internet address is http://www.atsdr.cdc.gov/toxfaq.html . ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

TETRACHLOROETHYLENE
CAS # 127-18-4

This fact sheet answers the most frequently asked health questions (FAQs) about tetrachloroethylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Tetrachloroethylene is a manufactured chemical used for dry cleaning and metal degreasing. Exposure to very high concentrations of tetrachloroethylene can cause dizziness, headaches, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness, and death. Tetrachloroethylene has been found in at least 771 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is tetrachloroethylene?

(Pronounced tĕt′rə-klôr′ ō-ĕth′ə-lēn′)

Tetrachloroethylene is a manufactured chemical that is widely used for dry cleaning of fabrics and for metal-degreasing. It is also used to make other chemicals and is used in some consumer products.

Other names for tetrachloroethylene include perchloroethylene, PCE, and tetrachloroethene. It is a nonflammable liquid at room temperature. It evaporates easily into the air and has a sharp, sweet odor. Most people can smell tetrachloroethylene when it is present in the air at a level of 1 part tetrachloroethylene per million parts of air (1 ppm) or more, although some can smell it at even lower levels.

What happens to tetrachloroethylene when it enters the environment?

- Much of the tetrachloroethylene that gets into water or soil evaporates into the air.
- Microorganisms can break down some of the tetrachloroethylene in soil or underground water.
- In the air, it is broken down by sunlight into other chemicals or brought back to the soil and water by rain.
- It does not appear to collect in fish or other animals that live in water.

How might I be exposed to tetrachloroethylene?

- When you bring clothes from the dry cleaners, they will release small amounts of tetrachloroethylene into the air.
- When you drink water containing tetrachloroethylene, you are exposed to it.

How can tetrachloroethylene affect my health?

High concentrations of tetrachloroethylene (particularly in closed, poorly ventilated areas) can cause dizziness, headache, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness, and death.

Irritation may result from repeated or extended skin contact with it. These symptoms occur almost entirely in work (or hobby) environments when people have been accidentally exposed to high concentrations or have intentionally used tetrachloroethylene to get a "high."

In industry, most workers are exposed to levels lower than those causing obvious nervous system effects. The health effects of breathing in air or drinking water with low levels of tetrachloroethylene are not known.

Results from some studies suggest that women who work in dry cleaning industries where exposures to tetrachloroethyl-

ene can be quite high may have more menstrual problems and spontaneous abortions than women who are not exposed. However, it is not known if tetrachloroethylene was responsible for these problems because other possible causes were not considered.

Results of animal studies, conducted with amounts much higher than those that most people are exposed to, show that tetrachloroethylene can cause liver and kidney damage. Exposure to very high levels of tetrachloroethylene can be toxic to the unborn pups of pregnant rats and mice. Changes in behavior were observed in the offspring of rats that breathed high levels of the chemical while they were pregnant.

How likely is tetrachloroethylene to cause cancer?

The Department of Health and Human Services (DHHS) has determined that tetrachloroethylene may reasonably be anticipated to be a carcinogen. Tetrachloroethylene has been shown to cause liver tumors in mice and kidney tumors in male rats.

Is there a medical test to show whether I've been exposed to tetrachloroethylene?

One way of testing for tetrachloroethylene exposure is to measure the amount of the chemical in the breath, much the same way breath-alcohol measurements are used to determine the amount of alcohol in the blood.

Because it is stored in the body's fat and slowly released into the bloodstream, tetrachloroethylene can be detected in the breath for weeks following a heavy exposure.

Tetrachloroethylene and trichloroacetic acid (TCA), a breakdown product of tetrachloroethylene, can be detected in the blood. These tests are relatively simple to perform. These tests aren't available at most doctors' offices, but can be performed at special laboratories that have the right equipment.

Because exposure to other chemicals can produce the same breakdown products in the urine and blood, the tests for breakdown products cannot determine if you have been exposed to tetrachloroethylene or the other chemicals.

Has the federal government made recommendations to protect human health?

The EPA maximum contaminant level for the amount of tetrachloroethylene that can be in drinking water is 0.005 milligrams tetrachloroethylene per liter of water (0.005 mg/L).

The Occupational Safety and Health Administration (OSHA) has set a limit of 100 ppm for an 8-hour workday over a 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) recommends that tetrachloroethylene be handled as a potential carcinogen and recommends that levels in workplace air should be as low as possible.

Glossary

Carcinogen: A substance with the ability to cause cancer.

CAS: Chemical Abstracts Service.

Milligram (mg): One thousandth of a gram.

Nonflammable: Will not burn.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Tetrachloroethylene (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone:1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

TOLUENE
CAS # 108-88-3

Division of Toxicology ToxFAQs™ **February 2001**

This fact sheet answers the most frequently asked health questions (FAQs) about toluene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to toluene occurs from breathing contaminated workplace air, in automobile exhaust, some consumer products paints, paint thinners, fingernail polish, lacquers, and adhesives. Toluene affects the nervous system. Toluene has been found at 959 of the 1,591 National Priority List sites identified by the Environmental Protection Agency

What is toluene?

Toluene is a clear, colorless liquid with a distinctive smell. Toluene occurs naturally in crude oil and in the tolu tree. It is also produced in the process of making gasoline and other fuels from crude oil and making coke from coal.

Toluene is used in making paints, paint thinners, fingernail polish, lacquers, adhesives, and rubber and in some printing and leather tanning processes.

What happens to toluene when it enters the environment?

❑ Toluene enters the environment when you use materials that contain it. It can also enter surface water and groundwater from spills of solvents and petrolieum products as well as from leasking underground storage tanks at gasoline stations and other facilities.

❑ When toluene-containing products are placed in landfills or waste disposal sites, the toluene can enter the soil or water near the waste site.

❑ Toluene does not usually stay in the environment long.

❑ Toluene does not concentrate or buildup to high levels in animals.

How might I be exposed to toluene?

❑ Breathing contaminated workplace air or automobile exhaust.

❑ Working with gasoline, kerosene, heating oil, paints, and lacquers.

❑ Drinking contaminated well-water.

❑ Living near uncontrolled hazardous waste sites containing toluene products.

How can toluene affect my health?

Toluene may affect the nervous system. Low to moderate levles can cause tiredness, confusion, weakness, drunken-type actions, memory loss, nausea, loss of appetite, and

hearing and color vision loss. These symptoms usually disappear when exposure is stopped.

Inhaling High levels of toluene in a short time can make you feel light-headed, dizzy, or sleepy. It can also cause unconsciousness, and even death.

High levels of toluene may affect your kidneys.

How likely is toluene to cause cancer?

Studies in humans and animals generally indicate that toluene does not cause cancer.

The EPA has determined that the carcinogenicity of toluene can not be classified.

How can toluene affect children?

It is likely that health effects seen in children exposed to toluene will be similar to the effects seen in adults. Some studies in animals suggest that babies may be more sensitive than adults.

Breathing very high levels of toluene during pregnancy can result in children with birth defects and retard mental abilities, and growth. We do not know if toluene harms the unborn child if the mother is exposed to low levels of toluene during pregnancy.

How can families reduce the risk of exposure to toluene?

❑ Use toluene-containing products in well-ventilated areas.

❑ When not in use, toluene-containing products should be tightly covered to prevent evaporation into the air.

Is there a medical test to show whether I've been exposed to toluene?

There are tests to measure the level of toluene or its breakdown products in exhaled air, urine, and blood. To determine if you have been exposed to toluene, your urine or blood must be checked within 12 hours of exposure. Several other chemicals are also changed into the same breakdown products as toluene, so some of these tests are not specific for toluene.

Has the federal government made recommendations to protect human health?

EPA has set a limit of 1 milligram per liter of drinking water (1 mg/L).

Discharges, releases, or spills of more than 1,000 pounds of toluene must be reported to the National Response Center.

The Occupational Safety and Health Administration has set a limit of 200 parts toluene per million of workplace air (200 ppm).

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological Profile for Toluene. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs™ Internet address is http://www.atsdr.cdc.gov/toxfaq.html . ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

XYLENE
CAS # 1330-20-7

This fact sheet answers the most frequently asked health questions (FAQs) about xylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Exposure to xylene occurs in the workplace and when you use paint, gasoline, paint thinners and other products that contain it. People who breathe high levels may have dizziness, confusion, and a change in their sense of balance. This substance has been found in at least 658 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is xylene?

(Pronounced zī′lēn)

Xylene is a colorless, sweet-smelling liquid that catches on fire easily. It occurs naturally in petroleum and coal tar and is formed during forest fires. You can smell xylene in air at 0.08–3.7 parts of xylene per million parts of air (ppm) and begin to taste it in water at 0.53–1.8 ppm.

Chemical industries produce xylene from petroleum. It's one of the top 30 chemicals produced in the United States in terms of volume.

Xylene is used as a solvent and in the printing, rubber, and leather industries. It is also used as a cleaning agent, a thinner for paint, and in paints and varnishes. It is found in small amounts in airplane fuel and gasoline.

What happens to xylene when it enters the environment?

- Xylene has been found in waste sites and landfills when discarded as used solvent, or in varnish, paint, or paint thinners.
- It evaporates quickly from the soil and surface water into the air.
- In the air, it is broken down by sunlight into other less harmful chemicals.
- It is broken down by microorganisms in soil and water.
- Only a small amount of it builds up in fish, shellfish, plants, and animals living in xylene-contaminated water.

How might I be exposed to xylene?

- Breathing xylene in workplace air or in automobile exhaust.
- Breathing contaminated air.
- Touching gasoline, paint, paint removers, varnish, shellac, and rust preventatives that contain it.
- Breathing cigarette smoke that has small amounts of xylene in it.
- Drinking contaminated water or breathing air near waste sites and landfills that contain xylene.
- The amount of xylene in food is likely to be low.

How can xylene affect my health?

Xylene affects the brain. High levels from exposure for short periods (14 days or less) or long periods (more than 1 year) can cause headaches, lack of muscle coordination, dizziness, confusion, and changes in one's sense of balance. Exposure of

people to high levels of xylene for short periods can also cause irritation of the skin, eyes, nose, and throat; difficulty in breathing; problems with the lungs; delayed reaction time; memory difficulties; stomach discomfort; and possibly changes in the liver and kidneys. It can cause unconsciousness and even death at very high levels.

Studies of unborn animals indicate that high concentrations of xylene may cause increased numbers of deaths, and delayed growth and development. In many instances, these same concentrations also cause damage to the mothers. We do not know if xylene harms the unborn child if the mother is exposed to low levels of xylene during pregnancy.

How likely is xylene to cause cancer?

The International Agency for Research on Cancer (IARC) has determined that xylene is not classifiable as to its carcinogenicity in humans.

Human and animal studies have not shown xylene to be carcinogenic, but these studies are not conclusive and do not provide enough information to conclude that xylene does not cause cancer.

Is there a medical test to show whether I've been exposed to xylene?

Laboratory tests can detect xylene or its breakdown products in exhaled air, blood, or urine. There is a high degree of agreement between the levels of exposure to xylene and the levels of xylene breakdown products in the urine. However, a urine sample must be provided very soon after exposure ends because xylene quickly leaves the body. These tests are not routinely available at your doctor's office.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 10 ppm of xylene in drinking water.

The EPA requires that spills or accidental releases of xylenes into the environment of 1,000 pounds or more must be reported.

The Occupational Safety and Health Administration (OSHA) has set a maximum level of 100 ppm xylene in workplace air for an 8-hour workday, 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) and the American Conference of Governmental Industrial Hygienists (ACGIH) also recommend exposure limits of 100 ppm in workplace air.

NIOSH has recommended that 900 ppm of xylene be considered immediately dangerous to life or health. This is the exposure level of a chemical that is likely to cause permanent health problems or death.

Glossary

Evaporate: To change from a liquid into a vapor or a gas.

Carcinogenic: Having the ability to cause cancer.

CAS: Chemical Abstracts Service.

ppm: Parts per million.

Solvent: A liquid that can dissolve other substances.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for xylenes (update). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

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ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

ZINC
CAS # 7440-66-6

Division of Toxicology ToxFAQs™ **August 2005**

This fact sheet answers the most frequently asked health questions (FAQs) about zinc. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Zinc is a naturally occurring element. Exposure to high levels of zinc occurs mostly from eating food, drinking water, or breathing workplace air that is contaminated. Low levels of zinc are essential for maintaining good health. Exposure to large amounts of zinc can be harmful. It can cause stomach cramps, anemia, and changes in cholesterol levels. Zinc has been found in at least 985 of the 1,662 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is zinc?

Zinc is one of the most common elements in the earth's crust. It is found in air, soil, and water, and is present in all foods. Pure zinc is a bluish-white shiny metal.

Zinc has many commercial uses as coatings to prevent rust, in dry cell batteries, and mixed with other metals to make alloys like brass, and bronze. A zinc and copper alloy is used to make pennies in the United States.

Zinc combines with other elements to form zinc compounds. Common zinc compounds found at hazardous waste sites include zinc chloride, zinc oxide, zinc sulfate, and zinc sulfide. Zinc compounds are widely used in industry to make paint, rubber, dyes, wood preservatives, and ointments.

What happens to zinc when it enters the environment?

❏ Some is released into the environment by natural processes, but most comes from human activities like mining, steel production, coal burning, and burning of waste.
❏ It attaches to soil, sediments, and dust particles in the air.
❏ Rain and snow remove zinc dust particles from the air.
❏ Depending on the type of soil, some zinc compounds can move into the groundwater and into lakes, streams, and rivers.
❏ Most of the zinc in soil stays bound to soil particles and does not dissolve in water.
❏ It builds up in fish and other organisms, but it does not build up in plants.

How might I be exposed to zinc?

❏ Ingesting small amounts present in your food and water.
❏ Drinking contaminated water or a beverage that has been stored in metal containers or flows through pipes that have been coated with zinc to resist rust.
❏ Eating too many dietary supplements that contain zinc.
❏ Working on any of the following jobs: construction, painting, automobile mechanics, mining, smelting, and welding; manufacture of brass, bronze, or other zinc-containing alloys; manufacture of galvanized metals; and manufacture of machine parts, rubber, paint, linoleum, oilcloths, batteries, some kind of glass, ceramics, and dyes.

How can zinc affect my health?

Zinc is an essential element in our diet. Too little zinc can cause problems, but too much zinc is also harmful.

Harmful effects generally begin at levels 10-15 times higher than the amount needed for good health. Large doses taken by mouth even for a short time can cause stomach cramps, nausea, and vomiting. Taken longer, it can cause anemia and decrease the levels of your good cholesterol. We do not know if high levels of zinc affect reproduction in humans. Rats that were fed large amounts of zinc became infertile.

Inhaling large amounts of zinc (as dusts or fumes) can cause a specific short-term disease called metal fume fever. We do not know the long-term effects of breathing high levels of zinc.

Putting low levels of zinc acetate and zinc chloride on the skin of rabbits, guinea pigs, and mice caused skin irritation. Skin irritation will probably occur in people.

How likely is zinc to cause cancer?

The Department of Health and Human Services (DHHS) and the International Agency for Research on Cancer (IARC) have not classified zinc for carcinogenicity. Based on incomplete information from human and animal studies, the EPA has determined that zinc is not classifiable as to its human carcinogenicity.

How can zinc affect children?

Zinc is essential for proper growth and development of young children. It is likely that children exposed to very high levels of zinc will have similar effects as adults. We do not know whether children are more susceptible to the effects of excessive intake of zinc than the adults.

We do not know if excess zinc can cause developmental effects in humans. Animal studies have found decreased weight in the offspring of animals that ingested very high amounts of zinc.

How can families reduce the risks of exposure to zinc?

❑ Children living near waste sites that contain zinc may be exposed to higher levels of zinc through breathing contaminated air, drinking contaminated drinking water, touching or eating contaminated soil.

❑ Discourage your children from eating soil or putting their hands in their mouths and teach them to wash their hands frequently and before eating.

❑ If you use medicines or vitamin supplements containing zinc, make sure you use them appropriately and keep them out of the reach of children.

Is there a medical test to determine whether I've been exposed to zinc?

There are tests available to measure zinc in your blood, urine, hair, saliva, and feces. These tests are not usually done in the doctor's office because they require special equipment. High levels of zinc in the feces can mean high recent zinc exposure. High levels of zinc in the blood can mean high zinc consumption and/or high exposure. Tests to measure zinc in hair may provide information on long-term zinc exposure; however, the relationship between levels in your hair and the amount of zinc you were exposed to is not clear.

Has the federal government made recommendations to protect human health?

The EPA recommends that drinking water should contain no more than 5 milligrams per liter of water (5 mg/L) because of taste. The EPA requires that any release of 1,000 pounds (or in some cases 5,000 pounds) into the environment be reported to the agency.

To protect workers, the Occupational Safety and Health Administration (OSHA) has set an average limit of 1 mg/m^3 for zinc chloride fumes and 5 mg/m^3 for zinc oxide (dusts and fumes) in workplace air during an 8-hour workday, 40-hour workweek.

Similarly, the National Institute for Occupational Safety and Health (NIOSH) has set the same standards for up to a 10-hour workday over a 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2005. Toxicological Profile for Zinc (Update). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATTACHMENT B
REPORT FORMS

WEEKLY SAFETY REPORT FORM

Week Ending: _____ Project Name/Number: _____

Report Date: _____ Project Manager Name: _____

Summary of any violations of procedures occurring that week:

_____

_____

_____

Summary of any job related injuries, illnesses, or near misses that week:

_____

_____

_____

_____

Summary of air monitoring data that week (include and sample analyses, action levels exceeded, and actions taken):

_____

_____

_____

Comments:

_____

_____

_____

Name: _____ Company: _____

Signature: _____ Title: _____

INCIDENT REPORT FORM

Date of Report: _____

Injured: _____

Employer: _____

Site: _____ Site Location: _____

Report Prepared By: _____ _____
Signature Title

ACCIDENT/INCIDENT CATEGORY (check all that applies)

___Injury	___ Illness	___ Near Miss
__ Property Damage	___ Fire	___ Chemical Exposure
__ On-site Equipment	___ Motor Vehicle	___ Electrical
__ Mechanical	___ Spill	___ Other

DATE AND TIME OF ACCIDENT/INCIDENT: Narrative report of Accident/Incident: Identify: 1) actions leading to or contributing to the accident/incident; 2) the accident/incident occurrence; and 3) actions following the accident/incident.

_____

_____

_____

_____

_____

_____

_____

_____

_____

WITNESS TO ACCIDENT/INCIDENT:

Name:	_____	Company:	_____
Address:	_____	Address:	_____
Phone No.:	_____	Phone No.:	_____
Name:	_____	Company:	_____
Address:	_____	Address:	_____
Phone No.:	_____	Phone No.:	_____

INJURED - ILL:

Name: _____ SSN: _____

Address: _____ Age: _____

Length of Service: _____ Time on Present Job: _____

Time/Classification: _____

SEVERITY OF INJURY OR ILLNESS:

____ Disabling ___ Non-disabling ___ Fatality

____ Medical Treatment ___ First Aid Only

ESTIMATED NUMBER OF DAYS AWAY FROM JOB: _____

NATURE OF INJURY OR ILLNESS: _____

_____

_____

_____

CLASSIFICATION OF INJURY:

__ Abrasions _____ Dislocations ____ Punctures

__ Bites _____ Faint/Dizziness ____ Radiation Burns

__ Blisters _____ Fractures ____ Respiratory Allergy

__ Bruises _____ Frostbite ____ Sprains

__ Chemical Burns _____ Heat Burns ____ Toxic Resp. Exposure

__ Cold Exposure _____ Heat Exhaustion ____ Toxic Ingestion

__ Concussion _____ Heat Stroke ____ Dermal Allergy

__ Lacerations

Part of Body Affected: _____

Degree of Disability: _____

Date Medical Care was Received: _____

Where Medical Care was Received: _____

Address (if off-site): _____

(If two or more injuries, record on separate sheets)

PROPERTY DAMAGE:

Description of Damage: _____

_____

Cost of Damage: $ _____

ACCIDENT/INCIDENT LOCATION: _____

ACCIDENT/INCIDENT ANALYSIS: Causative agent most directly related to accident/incident (Object, substance, material, machinery, equipment, conditions)

_____

_____

_____

_____

Was weather a factor?:_____

_____

Unsafe mechanical/physical/environmental condition at time of accident/incident (Be specific):

_____

_____

_____

Personal factors (Attitude, knowledge or skill, reaction time, fatigue):

_____

_____

ON-SITE ACCIDENTS/INCIDENTS:

Level of personal protection equipment required in Site Safety Plan:

_____

_____

Modifications:

_____

Was injured using required equipment?:

_____

_____

If not, how did actual equipment use differ from plan?:

_____

_____

ACTION TAKEN TO PREVENT RECURRENCE: (Be specific. What has or will be done? When will it be done? Who is the responsible party to insure that the correction is made?

_____

_____

_____

_____

_____

ACCIDENT/INCIDENT REPORT REVIEWED BY:

_____ _____

SSO Name Printed SSO Signature

OTHERS PARTICIPATING IN INVESTIGATION:

_____ _____

Signature Title

_____ _____

Signature Title

_____ _____

Signature Title

ACCIDENT/INCIDENT FOLLOW-UP: Date: _____

Outcome of accident/incident: _____

_____

_____

_____

Physician's recommendations: _____

_____

_____

_____

Date injured returned to work: _____

Follow-up performed by:

_____ _____

Signature Title

ATTACH ANY ADDITIONAL INFORMATION TO THIS FORM

ATTACHMENT C

EMERGENCY HAND SIGNALS

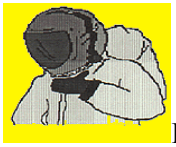
EMERGENCY SIGNALS

In most cases, field personnel will carry portable radios for communication. If this is the case, a transmission that indicates an emergency will take priority over all other transmissions. All other site radios will yield the frequency to the emergency transmissions.

Where radio communications is not available, the following air-horn and/or hand signals will be used:

EMERGENCY HAND SIGNALS

OUT OF AIR, CAN'T BREATHE!



Hand gripping throat

LEAVE AREA IMMEDIATELY, NO DEBATE!

(No Picture) Grip partner's wrist or place both hands around waist

NEED ASSISTANCE!



Hands on top of head

OKAY! – I'M ALL RIGHT!

- I UNDERSTAND!



Thumbs up

NO! - NEGATIVE!



Thumbs down

APPENDIX H
COMMUNITY AIR MONITORING PLAN

IKOS SENIOR LIVING

QUEENS, NEW YORK

Community Air Monitoring Plan

NYSDEC BCP Site No: C241290
AKRF Project Number: 240854

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York 12233

Prepared On Behalf Of:

Ikos Senior Living LLC
48-02 25th Avenue, Suite 400
Astoria, NY 11103

Prepared by:

AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, New York 10016
212-696-0670

JULY 2026

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TABLES

Table 1 – Work Zone Air Monitoring Action Levels

ATTACHMENTS

Attachment A – Special Requirements CAMP

1.0 INTRODUCTION

This Community Air Monitoring Plan (CAMP) has been developed for the implementation of a Remedial Action Work Plan (RAWP) by AKRF, Inc. (AKRF) personnel and its subcontractors at the property located at 32-11 31st Street in the Astoria section of the Queens, New York, hereafter referred to as the "Site." The Site is identified by the City of New York as Borough of the Queens, Tax Block 611, Lot 25 on the New York City Tax Map.

The Site currently consists of a municipal, asphalt-paved parking lot and is not developed with any permanent structures. The Site location is shown on Figure 1, and the Site layout is shown on Figure 2. The Site is abutted to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units. The greater surrounding area includes primarily commercial, retail, residential, and transit uses.

2.0 AIR MONITORING PROGRAM

The purpose of the air monitoring program is to identify any exposure of the field personnel and the community to potential environmental hazards in the soil and groundwater. Air Monitoring will be conducted in accordance with the New York State Department of Health (NYSDOH) and New York State Department of Environmental Conservation (NYSDEC) guidance. Results of the air monitoring will be used to determine the appropriate response action, if needed. Field personnel will be trained in the proper operation of all field instruments at the start of the field program. The equipment will be calibrated according to manufacturer specifications at the start of each day of fieldwork. If an instrument fails calibration, the project manager will be contacted immediately to obtain a replacement instrument and arrange for repairs.

2.1 Work Zone Air Monitoring

2.1.1 Volatile Organic Compound (VOC) Monitoring

Continuous monitoring for VOCs will be conducted using roving hand-held equipment during all ground-intrusive activities, including soil boring advancement and groundwater monitoring well installation. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background concentrations. VOCs will be monitored continuously at the downwind perimeter of the exclusion zone. Monitoring will be conducted with a photoionization detector (PID) equipped with a 10.6 electron Volt (eV) lamp capable of calculating 15-minute running average concentrations. More frequent intervals of monitoring will be conducted if required as determined by the SSO. All PID readings will be recorded and available for NYSDEC and NYSDOH personnel to review. Instantaneous readings will also be recorded.

2.1.2 Airborne Particulate Monitoring

A DustTrak® or equivalent would be used to measure real-time concentrations of total particulates 10 micrometers or less (PM10). Measurements for particulates will be taken prior to commencement of the work and during the work in areas where contaminated soil would be disturbed. The action levels listed in Table 1 are based on 15-minute averages of the monitoring data. The measurements will be made at the breathing height of the workers and as close to their location as practicable. The Site Safety Officer (SSO) will set up the equipment and confirm that it is working properly. His/her qualified designee may oversee the air measurements during the day. The initial measurement for the day will be performed before the start of work and will establish background levels. The final measurement for the day will be performed after the end of work. The action levels for particulates and VOCs and required responses are listed in Table 1.

Table 1
Work Zone Action Levels and Required Responses

Monitoring	Action Level[1]	Response Action
Particulate	Less than 0.125 mg/m^3 above background	**Level D or D-Modified** (Requires coveralls and steel toe boots) (As applicable: Chemical resistant gloves, chemical resistant boot covers, hard hat, safety glasses, face shield, or escape mask)
	Between 0.125 mg/m^3 and 0.150 mg/m^3 above background	**Level C** (Requires full face or half face respirator, hooded chemical resistant two piece Tyvek suit or overalls, chemical resistant inner and outer gloves, chemical resistant boot covers, steel toe and shank boots) (As applicable: hard hat, face shield, or escape mask) Apply dust suppression measures. Resume work or upgrade.
	Greater than 0.150 mg/m^3 above background	Stop work. Apply additional dust suppression measures. Resume work when less than 0.150 mg/m^3 and maintain Level C.
Volatile Organic Compound (VOC)	Less than 5 ppm in breathing zone	**Level D or D-Modified**
	Between 5 and 50 ppm	**Level C**
	More than 50 ppm	Stop work. Resume work when source of vapors is abated and readings are less than 50 ppm above background.

Notes:
[1] - 15-minute time-weighted average
parts per million = ppm
milligrams per cubic meter = mg/m^3

2.2 Perimeter Community Air Monitoring

Fixed air monitoring stations will be set up at the upwind and downwind perimeters of the exclusion zone during all ground intrusive activities and will continuously log VOC and particulate levels. Each fixed monitoring station will be fully enclosed and equipped with the following:

- A PID equipped with a 10.6 eV lamp capable of calculating 15-minute running average VOC concentrations;
- A TSI 8530 DustTrak II or equivalent dust monitor capable of measuring the concentration of airborne respirable particulates less than 10 micrometers in size (PM10) and calculating 15-minute running average particulate concentrations; and
- A Netronix™ Thiamus™ ICU-820 or equivalent Global System for Mobile Communication (GSM)/Global Positioning System (GPS) device capable of recording air monitoring and location data.
- Each monitoring station will be capable of sending e-mail alerts to the SSO to indicate an exceedance of action levels. Additionally, the SSO will conduct an inspection of the monitoring stations on at least an hourly basis. Upon completion of Site activities, all air monitoring data will be available to download via the iEnvironet® website. All air monitoring data recorded at the fixed monitoring stations will be available for NYSDOH and NYSDEC review and will be included in the Final Engineering Report (FER).

2.2.1 Perimeter Community Air Monitoring Action Levels

VOC Action Levels

The following actions will be taken based on organic vapor levels measured:

If total organic vapor levels exceed 5 parts per million (ppm) above background for the 15-minute average at the exclusion zone perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work activities will resume with continued monitoring.

If total organic vapor levels at the downwind perimeter of the exclusion zone persist at levels in excess of 5 ppm above background, but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet – is below 5 ppm above background for the 15-minute average.

If the total organic vapor level is above 25 ppm at the perimeter of the exclusion zone, activities will be shutdown.

Particulate Action Levels

The following actions will be taken based on particulate levels measured:

If the downwind particulate concentrations are greater than 0.1 milligrams per cubic meter (mg/m^3) above background (upwind concentrations), and no other obvious source is apparent, then it will be assumed that the elevated particulate concentrations are a result of site activities. In such instances, dust suppression measures will be implemented and monitoring will be continued. Work will be allowed to continue with dust suppression if downwind particulate levels do not exceed 0.15 mg/m^3 above the background (upwind concentration) and provided that no visible dust is migrating from the work area.

If particulate levels persist at 0.15 mg/m^3 above the background, work must be stopped until dust suppression measures bring particulate levels to below 0.15 mg/m^3 above background.

2.3 Major Vapor Emission Response Plan

If any organic levels greater than 5 ppm over background are identified 200 feet downwind from the work Site, or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted or vapor controls must be implemented.

If, following the cessation of the work activities, or as the result of an emergency, organic levels persist above 5 ppm above background 200 feet downwind or half the distance to the nearest residential or commercial property from the exclusion zone, then the air quality must be monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20 Foot Zone).

If either of the following criteria is exceeded in the 20 Foot Zone, then the Major Vapor Emission Response Plan shall automatically be implemented:

- Sustained organic vapor levels approaching 1 ppm above background for a period of more than 30 minutes; or
- Organic vapor levels greater than 5 ppm above background for any time period.

Upon activation, the following activities shall be undertaken as part of the Major Vapor Emission Response Plan:

- The NYSDEC, NYSDOH, and local police authorities will be immediately contacted by the SSO and advised of the situation;
- Frequent air monitoring will be conducted at 30-minute intervals within the 20 Foot Zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the Site Health and Safety Officer; and
- All Emergency contacts will go into effect as appropriate.
- All readings will be recorded and be available for NYSDEC and NYSDOH personnel to review.

2.4 Special Requirements CAMP

As the Site is located within 20 feet of potentially occupied structures, a Special Requirements CAMP will be implemented. The fixed CAMP stations will be located near potentially exposed individuals. Commercial-use buildings are located west-adjacent to the Site.

The additional CAMP provisions included in the Special Requirements CAMP are as follows:

- Use of engineering controls such as vapor/dust barriers or special ventilation devices will be considered; and
- Special consideration will be given to implementing planned activities when potentially exposed populations are at a minimum.

The following Site-Specific CAMP provisions will be implemented at the Site, as necessary:

- If total VOC concentrations near the outside walls or next to intake vents of the west-adjacent occupied structures exceed 1 ppm, air monitoring should occur within the occupied structures; and
- If total particulate concentrations near the outside walls or next to intake vents of the west-adjacent occupied structures exceed 0.15 mg/m^3, work activities should be suspended until controls are implemented.

Additional information regarding the Special Requirements CAMP is provided in Attachment A.

2.5 Reporting

CAMP summary reports will be prepared and submitted to NYSDEC and NYSDOH for review as part of the daily reports. In the event there is an action level exceedance or complaint, NYSDEC and NYSDOH will be notified within 24 hours (same day to the extent possible) of the exceedance or complaint. The notification will include a description of the exceedance or complaint, the cause of the exceedance, and any corrective actions taken. All recorded CAMP data will be included in the FER.

ATTACHMENT A
SPECIAL REQUIREMENTS CAMP

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work With Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures" except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.

APPENDIX I
CITIZEN PARTICIPATION PLAN

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Brownfield Cleanup Program

Citizen Participation Plan
for
Ikos Senior Living

November 2025

C241290
32-11 31st Street, Astoria, NY 11106

Prepared by:
akrf
AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, NY 10016
(212) 696-0670

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2. Citizen Participation (CP) Activities 1
3. Major Issues of Public Concern 5
4. Site Information 6
5. Investigation and Cleanup Process 6

Appendix A - Project Contacts and Locations of Reports and Information A-1
Appendix B - Site Contact List B-1
Appendix C - Site Location Map C-1
Appendix D - Brownfield Cleanup Program Process D-1

* * * * *

Note: The information presented in this Citizen Participation (CP) Plan (CPP) was current as of the date of its approval by the New York State Department of Environmental Conservation (NYSDEC). Portions of this CPP may be revised during the investigation and cleanup process.

Applicant: **Ikos Senior Living LLC ("Applicant")**
Site Name: **Ikos Senior Living ("Site")**
Site Address: **32-11 31st Street, Queens, NY**
Site County: **Queens**
Site Number: **C241290**

What is New York's Brownfield Cleanup Program (BCP)?

New York's BCP works with private developers to encourage the voluntary cleanup of contaminated properties known as "brownfields" so that they can be reused and developed. These uses include recreation, housing, and business.

A *brownfield* is any real property that is difficult to reuse or redevelop because of the presence or potential presence of contamination. A brownfield typically is a former industrial or commercial property where operations may have resulted in environmental contamination. A brownfield can pose environmental, legal, and financial burdens on a community. If a brownfield is not addressed, it can reduce property values in the area and affect economic development of nearby properties.

The BCP is administered by the New York State Department of Environmental Conservation (NYSDEC), which oversees Applicants who conduct brownfield site investigation and cleanup activities. An Applicant is a person who has requested to participate in the BCP and has been accepted by NYSDEC. The BCP contains investigation and cleanup requirements, ensuring that cleanups protect public health and the environment. When NYSDEC certifies that these requirements have been met, the property can be reused or redeveloped for the intended use.

For more information about the BCP, go online at: http://www.dec.ny.gov/chemical/8450.html.

Citizen Participation (CP) Activities

Why NYSDEC Involves the Public and Why It Is Important

NYSDEC involves the public to improve the process of investigating and cleaning up contaminated sites, and to enable citizens to participate more fully in decisions that affect their health, environment, and social well-being. NYSDEC provides opportunities for citizen involvement and encourages early two-way communication with citizens before decision makers form or adopt final positions.

Involving citizens affected by and interested in site investigation and cleanup programs is important for many reasons. These include:

- Promoting the development of timely, effective site investigation and cleanup programs that protect public health and the environment;
- Improving public access to, and understanding of, issues and information related to a particular site and that site's investigation and cleanup process;
- Providing citizens with early and continuing opportunities to participate in NYSDEC's site investigation and cleanup process;
- Ensuring that NYSDEC makes site investigation and cleanup decisions that benefit from input that reflects the interests and perspectives found within the affected community; and
- Encouraging dialogue to promote the exchange of information among the affected/interested public, state agencies, and other interested parties that strengthens trust among the parties, increases understanding of site and community issues and concerns, and improves decision-making.

This CP Plan (CPP) provides information about how NYSDEC will inform and involve the public during the investigation and cleanup of the Site identified above. The public information and involvement program will be carried out with assistance, as appropriate, from the Applicant.

Project Contacts

Appendix A identifies NYSDEC project contact(s) to whom the public should address questions or request information about the Site's investigation and cleanup program. The public's suggestions about this CPP and the CP program for the Site are always welcome. Interested people are encouraged to share their ideas and suggestions with the project contacts at any time.

Locations of Reports and Information

The locations of the reports and information related to the Site's investigation and cleanup program are also identified in Appendix A. These locations provide convenient access to important project documents for public review and comment. Some documents may be placed on the NYSDEC website. If this occurs, NYSDEC will inform the public in fact sheets distributed about the Site and by other means, as appropriate.

Site Contact List

Appendix B contains the Site contact list. This list has been developed to keep the community informed about, and involved in, the Site's investigation and cleanup process. The Site contact list will be used periodically to distribute fact sheets that provide updates about the status of the project. These will include notifications of upcoming activities at the Site (such as fieldwork), as well as availability of project documents and announcements about public comment periods.

The Site contact list includes, at a minimum:

- Chief executive officer and planning board chairperson of each county, city, town and village in which the Site is located;
- Residents, owners, and occupants of the Site and properties adjacent to the Site;
- The public water supplier that services the area in which the Site is located;
- Any person who has requested to be placed on the Site contact list;
- The administrator of any school or day care facility located on or near the Site for purposes of posting and/or disseminating information at the facility; and
- Location(s) of reports and information.

The Site location is shown in Appendix C.

The Site contact list will be reviewed periodically and updated as appropriate. Individuals and organizations will be added to the Site contact list upon request. Such requests should be submitted to the NYSDEC project contact(s) identified in Appendix A. Other additions to the Site contact list may be made at the discretion of the NYSDEC project manager, in consultation with other NYSDEC staff as appropriate.

Note: The first Site fact sheet [usually related to the Draft Remedial Investigation Work Plan (RIWP)] is distributed both by paper mailing through the postal service and through DEC Delivers, NYSDEC's email listserv service. The fact sheet includes instructions for signing up with the appropriate county listserv to receive future notifications about the Site. For more information, visit: http://www.dec.ny.gov/chemical/61092.html.

Subsequent fact sheets about the Site will be distributed exclusively through the listserv, except for households without internet access that have indicated the need to continue to receive Site information in paper form. Please advise the NYSDEC Site project manager identified in Appendix A if that is the case.

Paper mailings may continue during the investigation and cleanup process for some sites, based on public interest and need.

CP Activities

The table at the end of this section identifies the CP activities, at a minimum, that have been and will be conducted during the Site's investigation and cleanup program. The flowchart in Appendix D shows how these CP activities integrate with the site investigation and cleanup process. The public is informed about these CP activities through fact sheets and notices distributed at significant points during the program. Elements of the investigation and cleanup process that match up with the CP activities are explained briefly in Section 5.

- **Notices and fact sheets** help the interested and affected public to understand contamination issues related to a site, and the nature and progress of efforts to investigate and clean up a site.
- **Public forums, comment periods, and contact with project managers** provide opportunities for the public to contribute information, opinions and perspectives that have the potential to influence decisions about a site's investigation and cleanup.

The public is encouraged to contact project staff at any time during the Site's investigation and cleanup process with questions, comments, or requests for information.

This CPP may be revised due to changes in major issues of public concern identified in Section 3 or in the nature and scope of investigation and cleanup activities. Modifications may include additions to the Site contact list and changes in planned CP activities.

Technical Assistance Grant (TAG)

NYSDEC must determine whether the Site poses a significant threat to public health or the environment. This determination generally is made using information developed during the investigation of the Site, as described in Section 5.

If the Site is determined to be a significant threat, a qualifying community group may apply for a TAG. The purpose of a TAG is to provide funds to the qualifying group to obtain independent technical assistance. This assistance helps the TAG recipient interpret and understand existing environmental information about the nature and extent of contamination related to the Site and the development/implementation of a remedy.

An eligible community group must certify that its membership represents the interests of the community affected by the Site, and that its members' health, economic well-being or enjoyment of the environment may be affected by a release or threatened release of contamination at the Site.

As of the date of this CPP, the significant threat determination for the Site has not yet been made.

To verify the significant threat status of the Site, the interested public may contact the NYSDEC project manager identified in Appendix A.

For more information about TAGs, go online at: https://dec.ny.gov/regulatory/regulations/technical-assistance-grant-tag-guidance-handbook-der-14

Note: The table identifying the CP activities related to the Site's investigation and cleanup program follows on the next page:

Citizen Participation (CP) Activity(ies)	Timing of CP Activity(ies)
Application Process:	
• Prepare Site contact list • Establish document repository(ies)	At time of preparation of application to participate in the Brownfield Cleanup Program (BCP).
• Publish notice in Environmental Notice Bulletin (ENB) announcing receipt of application and 30-day public comment period • Publish above ENB content in local newspaper • Mail above ENB content to Site contact list • Conduct 30-day public comment period	When the New York State Department of Environmental Conservation (NYSDEC) determines that the BCP application is complete. The 30-day public comment period begins on the date of publication of the notice in ENB. End date of public comment period is as stated in ENB notice. Therefore, ENB notice, newspaper notice, and notice to the Site contact list should be provided to the public at the same time.
After Execution of Brownfield Site Cleanup Agreement (BCA):	
• Prepare CP Plan (CPP)	Before start of Remedial Investigation **Note:** Applicant must submit the CPP to NYSDEC for review and approval within 20 days of the effective date of the BCA.
Before NYSDEC Approves Remedial Investigation (RI) Work Plan (RIWP):	
• Distribute fact sheet to Site contact list about proposed RI activities and announcing 30-day public comment period about Draft RIWP • Conduct 30-day public comment period	Before NYSDEC approves the RIWP. If the RIWP is submitted with the application, public comment periods will be combined and public notice will include the fact sheet. The 30-day public comment period begins/ends as per dates identified in the fact sheet.
After Applicant Completes RI:	
• Distribute fact sheet to Site contact list that describes RI results	Before NYSDEC approves the RI Report (RIR).
Before NYSDEC Approves Remedial Action Work Plan (RAWP):	
• Distribute fact sheet to Site contact list about Draft RAWP and announcing 45-day public comment period • Public meeting by NYSDEC about proposed RAWP (if requested by affected community or at discretion of NYSDEC project manager) • Conduct 45-day public comment period	Before NYSDEC approves the RAWP. The 45-day public comment period begins/ends as per the dates identified in the fact sheet. The public meeting would be held within the 45-day public comment period.
Before Applicant Starts Cleanup Action:	
• Distribute fact sheet to Site contact list that describes upcoming cleanup action	Before the start of cleanup action.
After Applicant Completes Cleanup Action:	
• Distribute fact sheet to Site contact list that announces that cleanup action has been completed and that NYSDEC is reviewing the Final Engineering Report (FER) • Distribute fact sheet to Site contact list announcing NYSDEC approval of FER and issuance of Certificate of Completion (COC)	At the time the cleanup action has been completed. **Note:** The two fact sheets are combined when possible if there is not a delay in issuing the COC.

Major Issues of Public Concern

This section of the CPP identifies major issues of public concern that relate to the Site. Additional major issues of public concern may be identified during the course of the Site's investigation and cleanup process.

Redevelopment Project-Related Issues

The Applicant submitted a BCP Application to NYSDEC in March 2025 and the application was deemed complete on May 16, 2025. The BCP Application was available for public comment between May 27, 2025, and June 27, 2025.

The Site is an approximately 0.48-acre property consisting of a municipal, asphalt-paved parking lot and is not developed with any permanent structures.

The proposed redevelopment consists of construction of two new buildings: a 13-story mixed-used residential building along 31st Street with affordable senior residential units and ground-floor retail; and a three-story community facility building on the Site's 32nd Street frontage. The community facility building would be connected to the residential building on the first floor. The proposed project would include green roofs and solar panels on both buildings. As the proposed Site use involves residential, there will be restrictions on site usage, which will be determined following remediation.

All remedial investigation and remedial activities are expected to be conducted in accordance with Environmental Conservation Law (ECL) Article 27, Title 14, 6 New York Codes, Rules, and Regulations (NYCRR) 375- 1.6(a), 375-3.6, and 375-6, and all applicable laws, rules, regulations, and guidance documents.

The Site is not located in an Environmental Justice Area. Environmental justice is defined as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Based on information from Statistical Atlas, the Site is located in a census bureau tract that has a sizable Hispanic-American population nearby. Therefore, all future fact sheets will be translated into Spanish. For additional information, visit: https://statisticalatlas.com/tract/New-York/Queens-County/005900/Race-and-Ethnicity.

Potential Remediation/Construction-Related Issues

Issues of concern to the community during the on-site remediation phase will likely include those related to the handling, transportation and off-site disposal of contaminated soil. The likely concern to the surrounding community will be the possibility of the generation of vapor or dust from the Site during remediation. On-site air quality and dust levels will be monitored during any soil excavation and removal activities in accordance with a Site-specific Construction Health and Safety Plan (HASP) that will be included as part of the RAWP. Dust suppression techniques will be employed to prevent the generation of dust. All air and dust monitoring will be performed in accordance with the New York State Department of Health's (NYSDOH) Community Air Monitoring Program (CAMP).

Additional remediation/construction concern will be the potential presence of trucks traveling through the community, and parking or idling at or near the Site during soil excavation and disposal. The RAWP will include provisions for on-site soil handling techniques that minimize the number of trucks and duration of time within or near the Site. In addition, provisions will be included to restrict truck traffic (to the extent possible) to designated routes along main roads while minimizing traffic within the community.

The concern over construction-related noise is also a common one for communities in which redevelopment is occurring. Construction plans will minimize noise to the extent possible and the operation of heavy equipment will be restricted to normal working hours as will be set forth in the required New York City-issued permits. Additional mitigation measures will also be evaluated.

Site Information

Appendix C contains a map identifying the location of the Site.

Site Description

The Site consists of an approximately 0.48-acre parcel located at 31-11 31st Street, in the Astoria section of Queens, New York, and is identified by the City of New York as Queens Borough Block 611, Lot 25.

Currently, The Site is an approximately 0.48-acre property consisting of a municipal, asphalt-paved parking lot and is not developed with any permanent structures. The Site is located in a highly developed urban area of the Astoria neighborhood of Queens, New York, consisting of primarily residential and commercial uses. A site plan is provided as Appendix C.

The Site is abutted to the north by commercial uses (restaurants, a bar, retail, and offices), followed by Broadway; to the south by residential units and the Cretans Association Omonia, Inc. Cultural Facility, followed by office space; to the east by residential units and 32nd Street; and to the west by 31st Street and an elevated NYC subway station, followed by commercial/retail and residential units.

History of Site Use, Investigation, and Cleanup

Historically, the Site was developed with a residential dwelling from at least 1898 to 1979 and included several vacant lots. The Site was developed in its current configuration as one contiguous lot and identified as a parking facility by 1988.

Two Subsurface (Phase II) Investigations were conducted by AKRF in October 2022 and December 2024 and documented in a Draft Remedial Investigation Report dated January 2025. The 2022 investigation was conducted in accordance with a New York City Department of Environmental Protection (NYCDEP)-approved Phase II Work Plan. The 2024 investigation was conducted in accordance with a New York City Mayor's Office of Environmental Remediation (NYCOER)-approved Phase II Work Plan.

Based on available data collected to date, contaminated soil, groundwater, and soil vapor are present at the Site. Soil beneath the Site contains elevated levels of metals, pesticides, and organic compounds, which are released naturally from burning combustion products such as coal, oil, gasoline, and wood. These compounds are commonly found in fill material in New York City due to the presence of coal ash and other man-made materials. Chlorinated-solvent compounds and metals were detected in groundwater at concentrations exceeding the corresponding regulatory standards. Petroleum- and chlorinated solvent-related compounds were additionally detected at elevated levels in soil vapor samples beneath the Site.

Investigation and Cleanup Process

Application

The Applicant has applied for and been accepted into New York's BCP as a Volunteer. This means that the Applicant was not responsible for the disposal or discharge of the contaminants, or whose ownership or operation of the Site took place after the discharge or disposal of contaminants. The Volunteer must fully characterize the nature and extent of contamination on-site, and must conduct a "qualitative exposure assessment," a process that characterizes the actual or potential exposures of people, fish, and wildlife to contaminants on the Site and to contamination that has migrated from the Site.

The Applicant in its Application proposes that the Site will be used for restricted residential purposes.

To achieve this goal, the Applicant will conduct investigation and cleanup activities at the Site with oversight provided by NYSDEC. The Brownfield Cleanup Agreement (BCA) executed by NYSDEC and the Applicant sets forth the responsibilities of each party in conducting these activities at the Site.

Investigation

The Applicant has completed a partial Site investigation before it entered into the BCP. For the partial investigation, NYSDEC will determine if the data are usable.

The Applicant will conduct a "Remedial Investigation" (RI). The RI will be performed with NYSDEC oversight. The Applicant must develop an RI Work Plan (RIWP), which is subject to public comment.

The RI has several goals

- Define the nature and extent of contamination in soil, surface water, groundwater, and any other parts of the environment that may be affected;
- Identify the source(s) of the contamination;
- Assess the impact of the contamination on public health and the environment; and
- Provide information to support the development of a proposed remedy to address the contamination or the determination that cleanup is not necessary.

The Applicant will submit a Draft RIWP to NYSDEC for review and approval. NYSDEC will make the Draft RIWP available to the public for review during a 30-day public comment period.

When the RI is complete, the Applicant will prepare and submit a report that summarizes the results. This report will also recommend whether cleanup action is needed to address Site-related contamination. The investigation report is subject to review and approval by NYSDEC.

NYSDEC will use the information in the investigation report to determine whether the Site poses a significant threat to public health or the environment. If the Site is a "significant threat," it must be cleaned up using a remedy selected by NYSDEC from an analysis of alternatives prepared by the Applicant and approved by NYSDEC. If the Site does not pose a significant threat, the Applicant may select the remedy from the approved analysis of alternatives.

Interim Remedial Measure (IRM)

An IRM is an action that can be undertaken at a site when a source of contamination or exposure pathway can be effectively addressed before the site investigation and analysis of alternatives are completed. If an IRM is likely to represent all or a significant part of the final remedy, NYSDEC will require a 30-day public comment period.

Remedy Selection

When the investigation of the Site has been determined to be complete, the project likely would proceed in one of two directions:

1. The Applicant may recommend that no action is necessary at the Site in its investigation report. In this case, NYSDEC would make the investigation report available for public comment for 45 days. NYSDEC would then complete its review, make any necessary revisions, and, if appropriate, approve the investigation report. Finally, NYSDEC would issue a "Certificate of Completion" (described below) to the Applicant.

or

2. The Applicant may recommend that action needs to be taken to address Site contamination in its investigation report. After NYSDEC approves the investigation report, the Applicant may then develop a cleanup plan, officially called a Remedial Action Work Plan (RAWP). The RAWP describes the Applicant's proposed remedy for addressing contamination related to the Site.

Once the Applicant submits a Draft RAWP for approval, NYSDEC would announce the availability of the Draft RAWP for public review during a 45-day public comment period.

Cleanup Action

NYSDEC will consider public comments and revise the Draft RAWP, if necessary, before approving the proposed remedy. The New York State Department of Health (NYSDOH) must concur with the proposed remedy. After approval, the proposed remedy becomes the selected remedy. The selected remedy is formalized in the Decision Document (DD).

The Applicant then may design and perform the cleanup action to address the Site contamination. NYSDEC and NYSDOH will oversee the activities. When the Applicant completes cleanup activities, it will prepare a Final Engineering Report (FER) that certifies that cleanup requirements have been achieved or will be achieved within a specific time frame. NYSDEC will review the report to be certain that the cleanup is protective of public health and the environment for the intended use of the Site.

Certificate of Completion (COC)

When NYSDEC is satisfied that cleanup requirements have been achieved or will be achieved for the Site, it will approve the FER. NYSDEC will then issue a COC to the Applicant. The COC states that cleanup goals have been achieved and relieves the Applicant from future liability for Site-related contamination, subject to certain conditions. The Applicant would be eligible to redevelop the Site after it receives a COC.

Site Management

The purpose of site management is to ensure the safe reuse of the property if contamination will remain in place. Site management is the last phase of the Site cleanup program. This phase begins when the COC is issued. Site management incorporates any institutional controls (ICs) and/or engineering controls (ECs) required to ensure that the remedy implemented for the Site remains protective of public health and the environment. All significant activities are detailed in a Site Management Plan (SMP).

An institutional control (IC) is a non-physical restriction on use of the site, such as a deed restriction that would prevent or restrict certain uses of the property. An IC may be used when the cleanup action leaves some contamination that makes the site suitable for some, but not all, uses.

An engineering control (EC) is a physical barrier or method to manage contamination. Examples include caps, covers, barriers, fences, and treatment of water supplies.

Site management also may include the operation and maintenance of a component of the remedy, such as a system that pumps and treats groundwater. Site management continues until NYSDEC determines that it is no longer needed.

APPENDIX A
PROJECT CONTACTS AND LOCATIONS OF REPORTS AND INFORMATION

Project Contacts

For information about the Site's investigation and cleanup program, the public may contact any of the following project staff:

New York State Department of Environmental Conservation (NYSDEC):

Elliott Jackson
Project Manager
NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233
(518) 402-9789
Email: Elliott.jackson@dec.ny.gov

Thomas V. Panzone
Public Participation Specialist
Division of Communication, Education, and Engagement
NYSDEC – Region 2
47-40 21st Street
Long Island City, NY 11101
(718) 482-4953
Thomas.panzone@dec.ny.gov

New York State Department of Health (NYSDOH):

Mya Burns
Public Health Specialist
NYSDOH
Corning Tower, 17th Floor
Albany, NY 12237
(518) 402-7860
beei@health.ny.gov

Locations of Reports and Information

The facilities identified below are being used to provide the public with convenient access to important project documents:

Queens Community Board 1	Broadway Library	NYSDEC
45-02 Ditmars Boulevard, LL Suite 1025 Astoria, NY 11105	40-20 Broadway Astoria, NY 11103	625 Broadway, 12th Floor Albany, NY 12233 DECInfo Locator Site: https://extapps.dec.ny.gov/data/DecDocs/C241290/
Chairperson: Evie Hantzopoulos District Manager: Florence Koulouris Environmental/Sanitation Chair Patricia Mahecha	Attn: Lubomira Kierkosz, Library Manager	Attn: Elliott Jackson
Phone: (718) 626 1021 718-626-1024 Email: qn01@cb.nyc.gov	Phone: (718) 721-2462	Phone: (518) 402-9789

Queens Community Board 1	Broadway Library	NYSDEC
Hours: Monday- Friday: 9 am-5 pm (Call for appointment)	Hours: Monday, Wednesday, Friday: 10 am-6 pm Tuesday: 1 pm-6 pm Thursday: 12 pm-8 pm Saturday: 10 am-5 pm Sunday: Closed	Hours: Monday-Friday:9 am-5 pm (Call for appointment)

APPENDIX B
SITE CONTACT LIST

Local, State, and Federal Officials

Hon. Eric Adams Mayor of New York City City Hall Park New York, NY 10007	Hon. Brad Lander New York City Comptroller Office of the Comptroller 1 Centre Street New York, NY 10007
Hon. Jumaane D. Williams Office of the Public Advocate Public Advocate 1 Centre Street, 15th Floor North New York, NY 10007	Hon. Donovan Richards Queens Borough President 120-55 Queens Boulevard Kew Gardens, NY 11424
Hon. Zohran K. Mamdani State Assembly District 36 24-08 32nd Street Suite 1002A Astoria, NY 11102	Hon. Tiffany Caban City Council District 22 30-83 31st St. Astoria, NY 11102
David Gold, Esq. NYC Department of City Planning 120 Broadway, 31st Floor New York, NY 10271	NYC Department of City Planning Lin Zeng - Director Queens Borough Office 120-55 Queens Boulevard., Room 201 Kew Gardens, NY 11424
Hon. Charles Schumer U.S. Senate 780 Third Avenue, Suite 2301 New York, NY 10017	Hon. Kirsten Gillibrand U.S. Senate 780 Third Avenue, Suite 2601 New York, NY 10017
Hon. Alexandria Ocasio-Cortez U.S. House of Representatives Astoria Office 30-83 31st Street Queens, NY 11102	Hon. Kristen Gonzalez New York State Senator, 59th District 801 2nd Avenue, Suite #303 New York, NY 10017
Shaminder Chawla, Director Mayor's Office of Environmental Remediation 100 Gold Street, 2nd Floor New York, NY 10038	Elijah Hutchinson, Executive Director Mayor's Office of Climate and Environmental Justice 253 Broadway, 14th Floor New York, NY 10007
Melissa Enoch, Assistant Commissioner Bureau of Environmental Planning and Analysis NYCDEP 59-17 Junction Boulevard, 11th Floor Flushing, NY 11373	Hon. Audrey I. Pheffer Queens County Clerk Queens Supreme Court Building 88-11 Sutphin Boulevard #106 Jamaica, NY 11435
Rohit T. Aggarwala Commissioner, NYCDEP 59-17 Junction Boulevard, 13th Floor Flushing, NY 11373	

Residents, Owners, and Occupants of the Site and Adjacent Properties

The Site, Block 611, Lot 25 is currently owned by the City of New York. A list of adjacent properties and owners is provided below:

Block/Lot	Owner	Occupant
611/33	Michael Efstathiou Eleftherios Venizelos 24 Voula, Athens 16673 Greece	Argy Realty LLC 32-03 31st Street Astoria, NY 11106 Queens Driving School 32-03 31st Street Astoria, NY 11106 L&P Stationary 31-02 Broadway Astoria, NY 11106 Bonus Drug & Surgical 31-04 Broadway Long Island City, NY 11106 McLoughlin's 31-06 Broadway Long Island City, NY 11106 Brown's Army + Navy NYC 31-08 Broadway Astoria, NY 11106 Shattuck Family Law 31-08 Broadway #204 Astoria, NY 11106 Broadway Dance Studio-Astoria 31-08 Broadway Astoria, NY 11106
611/37	K&K Building – 33, LLC 33-08 30th Avenue Astoria, NY 11103	Broadway Beer & Smoke 31-10 Broadway Astoria, NY 11106
611/38	K&K Building – 33, LLC 33-08 30th Avenue Astoria, NY 11103	Champion Pizza 31-12 Broadway Astoria NY, 11106
611/138	Teaglach Croi LLC 31-06 Broadway Astoria, NY 11106	Bahari Estiatorio 31-14 Broadway Astoria, NY 11106
611/39	Hieber Astoria, LLC 314 Cambridge Avenue Garden City, NY 11530	Pho Astoria 31-16 Broadway Astoria, NY 11106
611/40	Gulraiz Masood 78-17 67th Road Middle Village, NY 11379	Subway 31-18 Broadway Long Island City, NY 11106 31-08 Broadway Corp. 31-18 Broadway Long Island City, NY 11106

		Salvatoria Kitchen & Bar 31-18 Broadway Astoria, NY 11106
611/43	Leonidas Triantafillou 32-16 32nd Street Astoria, NY 11106	Current Occupants 32-16 32nd Street Astoria, NY 11106
611/44	George Dovas 32-18 32nd Street Astoria, NY 11106	Current Occupants 32-18 32nd Street Astoria, NY 11106
611/144	Alexandria Scott 32-20 32nd Street Long Island City, NY 11106	Current Occupants 32-20 32nd Street Long Island City, NY 11106
611/45	Eftihios Giouroukakis 32-22 32nd Street Long Island City, NY 11106	Current Occupants 32-22 32nd Street Long Island City, NY 11106
611/46	Victoria Marakomihelakis 32-24 32nd Street Astoria, NY 11106	Current Occupants 32-24 32nd Street Astoria, NY 11106
611/146	Byron Enterprises, LLC 1520 York Avenue, Suite 16B New York, NY 10028	Current Occupant 32-26 32nd Street Astoria, NY 11106
611/47	Ioannis Rizoglou 32-38 32nd Street Astoria, NY 11106	Current Occupants 32-38 32nd Street Astoria, NY 11106
611/48	Arshad Family Trust 35-36 31st Street Astoria, NY 11106	Current Occupant 35-36 31st Street Astoria, NY 11106
611/49	Johan Leonard 21-15 34th Avenue Long Island City, NY 11106	Current Occupant 21-15 34th Avenue Long Island City, NY 11106
611/21	32-33 LLC 32-33 31st Street Astoria, NY 11106	Cretans Association Omonia Inc 32-33 31st Street Astoria, NY 11106
612/32	John G. Dellis 21-73 32nd Street Astoria, NY 11105	Current Occupant 21-73 32nd Street Astoria, NY 11105
612/31	Athena Sakalis 32-13 32nd Street Long Island City, NY 11106	Current Occupant 32-13 32nd Street Long Island City, NY 11106
587/43	3214 Thirty First Street LLC % Sol Goldman Investments, LLC 1185 Avenue of the Americas, 10th Floor New York, NY 10036	

Local News Media

New York Post 1211 Avenue of the Americas New York, NY 10036	New York Daily News PO Box 7180 New York, NY 10008
Spectrum New York 1 News 75 Ninth Avenue New York, NY 10011	Queens Chronicle Atlas Park 71-19 80th Street, Suite 8-201 Glendale, NY 11385

QNS.com % Schneps Media 45-17 Marathon Parkway Douglaston, NY 11362	The Queens Courier Schneps Media 45-17 Marathon Parkway Douglaston, NY 11362
Queens Daily Eagle 89-00 Sutphin Boulevard LL2 Jamaica, NY 11435	Queens Gazette 42-16 34th Avenue Long Island City, NY 11101
El Diario Impremedia 41 Flatbush Avenue 1st Floor Brooklyn, NY 11217	Hoy Nueva York Impremedia 41 Flatbush Avenue 1st Floor Brooklyn, NY 11217

Nearby Schools and Daycare Centers

Schools	
P.S. 166Q – The Henry Gradstein School President/Executive Director/Principal 33-09 35th Avenue Astoria, NY 11106 (718) 786-6703	Urban Dove Team Charter School III Queens President/Executive Director/Principal 31-20 37th Street Astoria, NY 11103 (347) 588-5159
Saint Demetrios Greek American School President/Executive Director/Principal 30-03 30th Drive Astoria, NY 11102 (718) 728-1754	Frank Sinatra School of the Arts High School President/Executive Director/Principal 35-12 35th Avenue Astoria, NY 11106 (718) 361-9920
I.S. 126Q Albert Shanker School Community School President/Executive Director/Principal https://www.is126q.com/apps/contact/ 31-51 21st Street Queens, NY 11106 (718) 274-8316	The 30th Avenue School (G&T Citywide) President/Executive Director/Principal Upper Division Campus https://ps300q.org/contact.html 31-51 21st St., 5th Floor Long Island City, NY 11106 Phone: (718) 726-0501
Q580 The Baccalaureate School for Global Education President/Executive Director/Principal https://www.bsge.org/contact 34-12 36th Avenue Astoria, NY 11106 (718) 361-5275	Academy for New Americans President/Executive Director/Principal https://www.is235.org/ 30-14 30th Street Long Island City, NY 11102 (718) 956-4140
P.S. 017 Henry David Thoreau President/Executive Director/Principal https://www.ps17queens.com/ 28-37 29th Street Astoria, NY 11102 (718) 278-1220	Long Island City High School President/Executive Director/Principal https://www.lichs-bulldogs.org/ 14-30 Broadway Queens, NY 11106 (718) 545-7095
Daycare Facilities	
The Learning Experience – Astoria President/Executive Director/Principal 31-57 31st Street Astoria, NY 11106 (718) 204-1352	Elva's Daycare President/Executive Director/Principal 31-57 34th Street, Apartment 4B Astoria, NY 11106 (347) 448-6114/ (347)-848-6171
Adventureland Child Care Center President/Executive Director/Principal 32-04 31st Avenue	Kisses & Smiles Daycare President/Executive Director/Principal 31-14 34th Street

Astoria, NY 11106 (718) 777-2011	Astoria, NY 11106 (347) 998-0813
District 30 Pre-K Center President/Executive Director/Principal 32-52 37th Street Astoria, NY 11103 (718) 316-9337	A Learning Odyssey Daycare President/Executive Director/Principal 30-83 30th Street Suite 1-L Astoria, NY 11102 https://www.astoriadaycare.com/ (718) 956-5390
Queensview Nursery School and Kindergarten 21-36 33rd Road President/Executive Director/Principal https://www.queensviewschool.com/contact-us Long Island City, NY 11106 (718) 728-4164	All Children's Child Care President/Executive Director/Principal 3501 24th Street Long Island City, NY 11106 Toll Free: (855) 881-5661 Phone: (718) 707-0501 Phone: (718) 777-2011
Babyland Daycare Astoria President/Executive Director/Principal https://babylanddaycare.com/ 35-10 35th Street, B21 Astoria, NY 11106 (718) 404-7210	Children Blossom Daycare President/Executive Director/Principal 35-25 34th Street Astoria, NY 11106 (347) 642-3591
Babyland Daycare Astoria President/Executive Director/Principal https://babylanddaycare.com/ 35-15 34th Street Astoria, NY 11106 718-310-8532	Blue Apple Early Childhood Learning Center President/Executive Director/Principal 31-10 23rd Street Astoria, NY 11106 (718) 545-2583
First Tiny Steps President/Executive Director/Principal 31-51 38th Street Astoria, NY 11103 (718) 427-6852	Magali's Daycare NYS President/Executive Director/Principal 35-11 30th St, Astoria, NY 11106 (718) 255-1446
A Child's Daycation President/Executive Director/Principal 35-25 34th Street Long Island City, NY 11106 (347) 527-2078	Bright and Busy Daycare President/Executive Director/Principal 33-02 30th Avenue Astoria, NY 11103 (929) 510-8729
Zachery's Familycare Center President/Executive Director/Principal (917) 403-8048 35-25 34th St, Astoria, NY 11106	Cozy Garden Kids President/Executive Director/Principal (347) 408-1752 31-60 42nd St, Astoria, NY 11103

Community, Civic, Religious and Other Environmental Organizations:

Consolidated Edison Corporate Affairs
Richard David - Director of Queens Regional and Community Affairs
59-17 Junction Boulevard
Flushing, NY 11373

114th NYPD Police Precinct Council
President Ann Bruno
34-16 Astoria Boulevard
Queens, NY 11103

FDNY
ENGINE 262
30-89 21st Street
Astoria, NY 11102

CCNS Peter J. DellaMonica Older Adult Center
23-11 31st Road
Astoria, NY 11106

HANAC PCA Senior Residence
31-34 33rd Street
Long Island City, NY 11106

HANAC Archbishop Iakovos Center
32-06 21st Street, # 1
Long Island City, NY 11106

Bishop Rene Valero Senior Residence
23-11 31st Road
Astoria, NY 11106

Catherine Sheridan Houses
31-41 23rd Street
Astoria, NY 11106

Masjid El-Ber
36-05 30th Street
Astoria, NY 11106

Al-Amin Jame Masjid & Islamic Center
35-19 36th Avenue
Long Island City, NY 11106

Al-Ikhlas Mosque
21-23 30th Drive
Astoria, NY 11101

Congregation Sons of Israel
33-21 Crescent Street
Long Island City, NY 11106
Most Precious Blood Roman Catholic Church
32-23 36th Street
Astoria, NY 11106

Hope Astoria Church
36-14 35th Street
Astoria, NY 11106

San Pablo United Methodist Church
14-54 31st Road
Astoria, NY 11106

CityLight Church
44-01 Broadway
Long Island City, NY 11103

Emmanuel Charismatic Church
31-09 35th Avenue
Astoria, NY 11106

Trinity Lutheran Church
31-18 37th Street
Astoria, NY 11103

Community Church of Astoria
14-42 Broadway
Long Island City, NY 11106

Astoria Baptist Church
31-17 21st Street
Long Island City, NY 11106

The Church of the Redeemer, Episcopal/Anglican
30-14 Crescent Street
Astoria, NY 11102

St. Demetrios Greek Orthodox Cathedral
30-11 30th Drive
Astoria, NY 11102

Astoria Seventh-day Adventist Church
30-89 32nd Street
Astoria, NY 11102

Taiwan Union Christian Church
30-59 31st Street
Astoria, NY 11102

First Presbyterian Church
23-35 Broadway
Astoria, NY 11106

Word International Ministry, New York
31-21 31st Street
Astoria, NY 11106

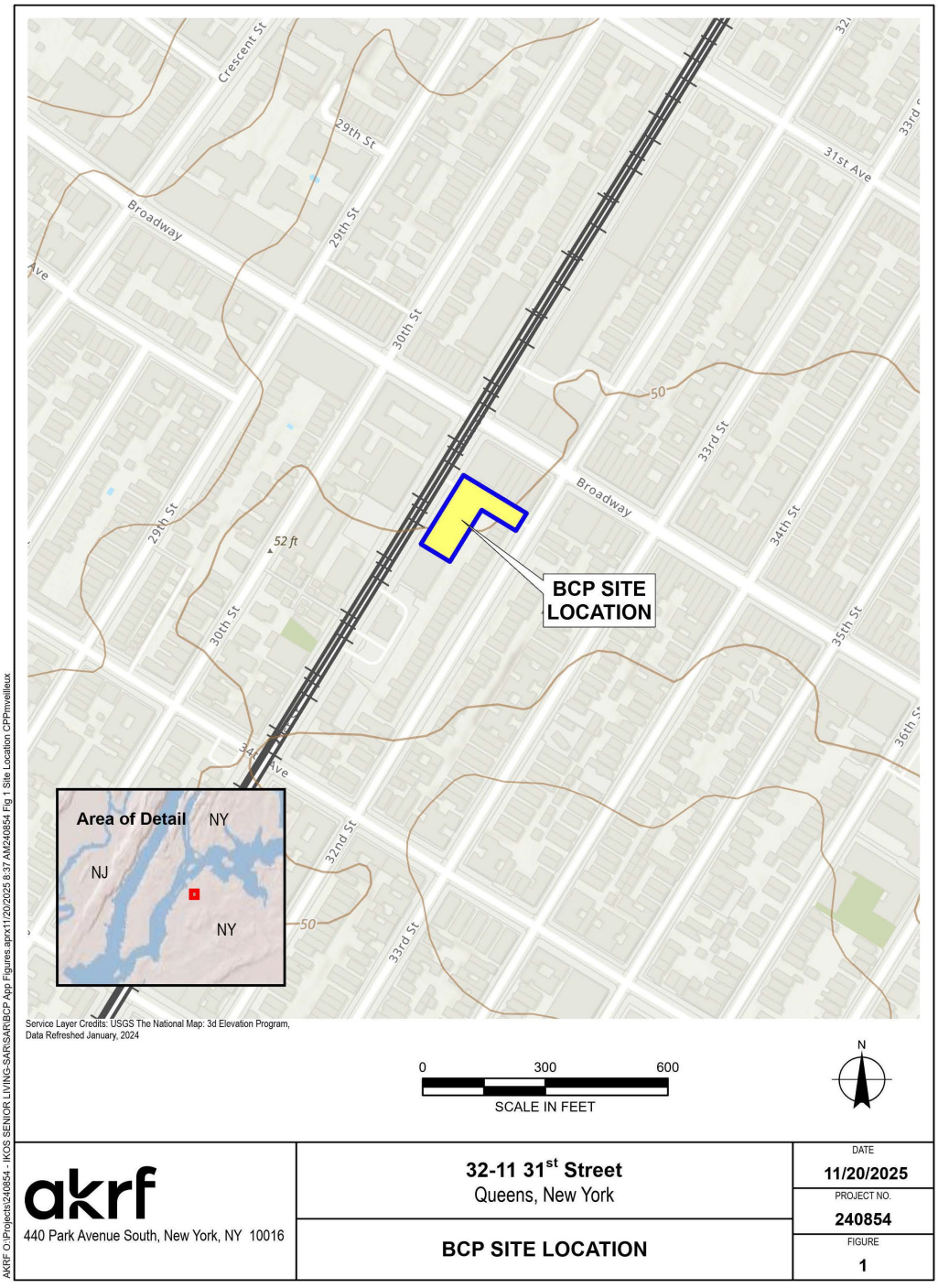
Open Door Bible Baptist Church
30-85 35th Street
Astoria, NY 11103

Holy Cross Ukrainian Catholic Church
31-12 30th Street
Long Island City, NY 11101

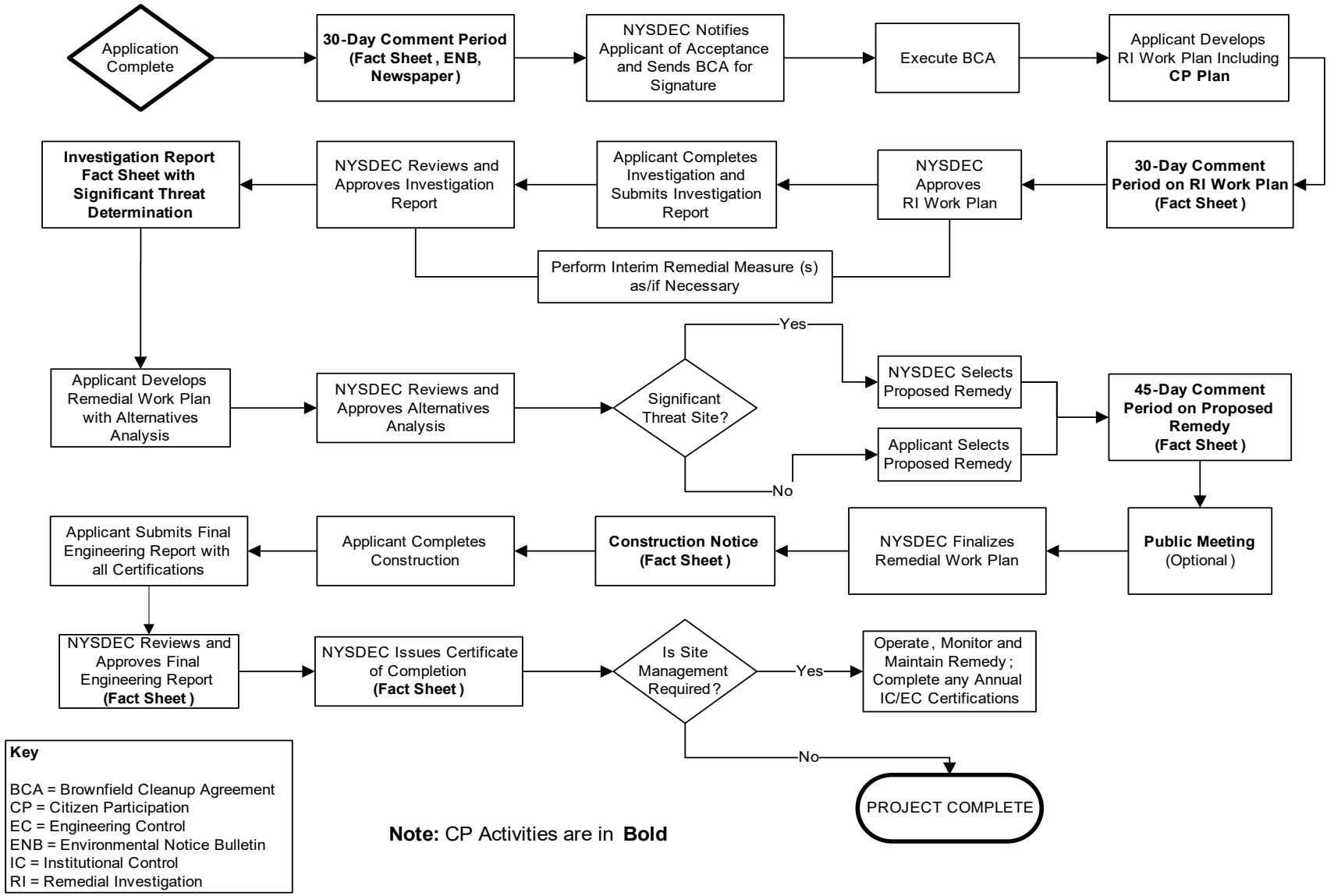
Destellos De Gloria USA
31-21 31st Street, 2 Floor
Astoria, NY 11106

Igreja Evangelica Assembleia de Deus Missao ElShaddai - Astoria New York
31-21 31st Street
Astoria, NY 11106

APPENDIX C
SITE LOCATION MAP



Appendix D– Brownfield Cleanup Program Process



NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Division of Environmental Remediation

Remedial Programs
Scoping Sheet for Major Issues of Public Concern

Instructions

This Scoping Sheet assesses major issues of public concern; impacts of the site and its remedial program on the community; community interest in the site; information the public needs; and information needed from the public.

The information generated helps to plan and conduct required citizen participation (CP) activities, and to choose and conduct additional CP activities, if appropriate. The scoping sheet can be revisited and updated as appropriate during the site's remedial process to more effectively implement the site's CP program.

Note: Use the information as an aid to prepare and update the Major Issues of Public Concern section of the site CP Plan.

General Instructions

- When to prepare: During preparation of the CP Plan for the site. It can be revisited and updated any time during the site remedial process.
- Fill in site name and other information as appropriate.
- The Scoping Sheet may be prepared by DEC or a remedial party but must be reviewed and approved by the DER site project manager or his/her designee.

Instructions for Numbered Parts

Consider the bulleted issues and questions below and any others that may be unique or appropriate to the site and the community to help complete the five Parts of this Scoping Sheet. Identify the issue stakeholders in Parts 1 through 3 and adjust the site's contact list accordingly.

Part 1. List Major Issues of Public Concern and Information the Community Wants.

- Is our health being impacted? (e.g. Are there problems with our drinking water or air? Are you going to test our water, yards, sumps, basements? Have health studies been done?)
- There are odors in the neighborhood. Do they come from the site and are they hazardous?
- Are there restrictions on what we may do (e.g. Can our children play outside? Can we garden? Must we avoid certain areas? Can we recreate (fish, hunt, hike, etc. on/around the site?)
- How and when were the site's contamination problems created?
- What contaminants are of concern and why? How will you look for contamination and find out where it is going? What is the schedule for doing that?
- The site is affecting our property values!
- How can we get more information (e.g. who are the project contacts?)
- How will we be kept informed and involved during the site remedial process?

- Who has been contacted in the community about site remedial activities?
- What has been done to this point? What happens next and when?
- The site is going to be cleaned up for restricted use. What does that mean? We don't want redevelopment on a "dirty" site.

Part 2. List Important Information Needed From the Community, if Applicable.

- Can the community supplement knowledge about past/current uses of the site?
- Does the community have knowledge that the site may be significantly impacting nearby people, properties, natural resources, etc.?
- Are activities currently taking place at the site or at nearby properties that may need to be restricted?
- Who may be interested or affected by the site that has not yet been identified?
- Are there unique community characteristics that could affect how information is exchanged?
- Does the community and/or individuals have any concerns they want monitored?
- Does the community have information about other sources in the area for the contamination?

Part 3. List Major Issues and Information That Need to be Communicated to the Community.

- Specific site investigation or remediation activities currently underway, or that will begin in the near future.
- The process and general schedule to investigate, remediate and, if applicable, redevelop the site.
- Current understanding about the site contamination and effects, if any, on public health and the environment.
- Site impacts on the community and any restrictions on the public's use of the site and/or nearby properties.
- Planned CP activities, their schedule, and how they relate to the site's remedial process.
- Ways for the community to obtain/provide information (document repositories, contacts, etc.).

Part 4. Community Characteristics

a. - e. Obtain information from local officials, property owners and residents, site reports, site visits, "windshield surveys," other staff, etc.

f. Has the affected community experienced other **significant** present or past environmental problems unrelated to this site? Such experiences could significantly affect public concerns and perspectives about the site; how the community will relate to project staff; the image and credibility of project staff within the community; and the ways in which project staff communicate with the community.

g. In its remedial programs, DER seeks to integrate, and be consistent with, environmental justice principles set forth in *DEC Commissioner Policy 29 on Environmental Justice* and *DER 23 – Citizen Participation Handbook for Remedial Programs*. Is the site and/or affected community wholly or partly in an Environmental Justice (EJ) Area? Use the Search feature on DEC's public web site for "environmental justice". DEC's EJ pages define an EJ area, and link to county maps to help determine if the site and/or community are in an EJ area.

h. Consider factors such as:

- Is English the primary language of the affected community? If not, provisions should be considered regarding public outreach activities such as fact sheets, meetings, door-to-door visits and other activities to ensure their effectiveness.

- The age demographics of the community. For example, is there a significant number of senior citizens in the community? It may be difficult for some to attend public meetings and use document repositories. This may suggest adopting more direct interaction with the community with activities such as door-to-door visits, additional fact sheets, visits to community and church centers, nursing homes, etc.
- How do people travel about the community? Would most people drive to a public meeting or document repository? Is there adequate public transportation?

Part 5. Affected/Interested Public.

Individuals and organizations who need or want information and input can change during the site's remedial process. This need is influenced by real, potential, or perceived impacts of the site or the remedial process. Some people may want information and input throughout the remedial process. Others may participate only during specific remedial stages or may only be interested in particular issues.

It is important to revisit this question when reviewing this scoping sheet. Knowing who is interested in the site – and the issues that are important to them – will help to select and conduct appropriate outreach activities, and to identify their timing and the information to be exchanged.

Check all affected/interested parties that apply to the site. **Note: Adjust the site's contact list appropriately.** The following are some ways to identify affected/interested parties:

- Tax maps of adjacent property owners
- Attendees at public meetings
- Telephone discussions
- Letters and e-mails to DER, the remedial party, and other agencies
- Political jurisdictions and boundaries
- Media coverage
- Current/proposed uses of site and/or nearby properties (recreational, commercial, industrial)
- Discussions with community organizations: grass roots organizations, local environmental groups, environmental justice groups, churches, and neighborhood advisory groups

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Division of Environmental Remediation

Remedial Programs
Scoping Sheet for Major Issues of Public Concern

Site Name: Ikos Senior Living

Site Number: C241290

Site Address and County: 31-11 31st Street, Queens

Remedial Party(ies): Ikos Senior Living LLC

Note: For Parts 1. – 3. the individuals, groups, organizations, businesses and units of government identified should be added to the site contact list as appropriate.

Part 1. List major issues of public concern and information the community wants. Identify individuals, groups, organizations, businesses and/or units of government related to the issue(s) and information needs. **Use this information as an aid to prepare or update the Major Issues of Public Concern section of the site Citizen Participation Plan.**

- The proposed Site use involves affordable housing. As such, there will be restrictions on Site use, which will be determined following remediation.
- As the Site is currently capped by the impervious parking area, there is no existing exposure pathway. A Community Air Monitoring Plan (CAMP) will be developed as part of the Remedial Action Work Plan (RAWP) that will be implemented during all subsurface disturbance activities to mitigate potential exposures to particulates and organic vapors.
- The proposed remediation of the Site will not diminish, and may improve, the property values in the surroundingarea.
- Adjacent property occupants and owners will be kept informed about the progress of the Site cleanup activities. Periodic fact sheets will be sent by mail.
- Local, state, and federal officials will be contacted about the Site remediation activities.
- Up to now, two Subsurface (Phase II) Investigations were conducted at the Site. A Remedial Investigation Work Plan (RIWP) will be prepared and submitted tofurther investigate the extent of on-site contamination. The RIWP will include provisions for analysisof soil, groundwater, and/or soil vapor beneath the entire Site. Findings from the Remedial Investigation will be used to prepare a RAWP, which includes the proposed remedy to address Site contamination and protect the health and safety of the public in the surrounding community.
- For more information about the Site or BCP program, contact the NYSDEC or NYSDOH Project Manager. Contact information is provided in Appendix A.

How were these issues and/or information needs identified?
These issues were identified based on a review of historic records of the Site presented in previous environmental reports, including: a Phase I Environmental Site Assessment prepared by AKRF dated June 2021, a Subsurface (Phase II) Investigation Report prepared by AKRF dated January 2024, and a Subsurface (Phase II) Investigation Reported prepared by AKRF dated December 2024. A description of the proposed project was also presented in the BCP Application.

Part 2. List important information needed **from** the community, if applicable. Identify individuals, groups,

organizations, businesses and/or units of government related to the information needed.

• Adjacent property owners and occupants will be informed of the Site remediation activities and can reach out to the Site's NYSDEC and/or NYSDOH Project Manager to obtain additional information.

• Nearby uses do not need to be restricted, since measures will be implemented during all investigation and remediation activities to protect the health safety of the public and local community. These measures include monitoring for dust that may be emanating from the Site and implementing dust controls such as spraying water or minimizing subsurface disturbance. Odors will be mitigated by the use of protective foams and/or covering any contaminated areas of disturbance or stockpiles with tarps.

How were these information needs identified?
Research was completed to identify the names and contact information of adjacent property owners and local government officials. These individuals are included in the Site Contact List under Appendix B.

Part 3. List major issues and information that need to be communicated **to** the community. Identify individuals, groups, organizations, businesses and/or units of government related to the issue(s) and/or information.
• The findings of previous subsurface investigations were used to support the BCP Application and will be used to develop a RIWP. The RIWP will be submitted to NYSDEC and NYSDOH for review and approval. The findings of the RI and previous investigations will be used to develop a RAWP and a selected cleanup remedy.

• Document repositories, where copies of all documents regarding the investigation and remediation of the Site are available to the public, have been established at: Queens Community Board 1, 45-02 Ditmars Boulevard, LL Suite 1025, Astoria, NY 11105; and Queens Central Library, 89-11 Merrick Boulevard, Jamaica, NY 11432.

How were these issues and/or information needs identified?
These needs were identified by summarizing the project timeline and a review of the information included in the BCP Application. Any contact information or details pertaining to the Site that have changed since issuance of the BCP Application, have been updated in this Citizen Participation Plan.

Part 4. Identify the following characteristics of the affected/interested community. This knowledge will help to identify and understand issues and information important to the community, and ways to effectively develop and implement the site citizen participation plan (mark all that apply):

a. Land use/zoning at and around site:
☒ **Residential** ☐ **Agricultural** ☐ **Recreational** ☒ **Commercial** ☐ **Industrial**

b. Residential type around site:
☒ **Urban** ☐ **Suburban** ☐ **Rural**

c. Population density around site:
☒ **High** ☐ **Medium** ☐ **Low**

d. Water supply of nearby residences:
☒ **Public** ☐ **Private Wells** ☐ **Mixed**

e. Is part or all of the water supply of the affected/interested community currently impacted by the site?
☐ **Yes** ☒ **No**

Provide details if appropriate:

Click here to enter text.

f. Other environmental issues significantly impacted/impacting the affected community?
☐ **Yes** ☒ **No**

Provide details if appropriate:
Click here to enter text.

g. Is the site and/or the affected/interested community wholly or partly in an Environmental Justice Area?
☐ **Yes** ☒ **No**

h. Special considerations:
☒ **Language** ☐ **Age** ☐ **Transportation** ☐ **Other**

Explain any marked categories in **h:**
Project fact sheets will be translated into Spanish.

Part 5. The site contact list must include, at a minimum, the individuals, groups, and organizations identified in Part 2. of the Citizen Participation Plan under 'Site Contact List'. Are *other* individuals, groups, organizations, and units of government affected by, or interested in, the site, or its remedial program? (Mark and identify all that apply, then adjust the site contact list as appropriate.)

☐ **Non-Adjacent Residents/Property Owners:** Click here to enter text.

☒ **Local Officials:** See Appendix B

☒ **Media:** See Appendix B

☐ **Business/Commercial Interests:** Click here to enter text.

☐ **Labor Group(s)/Employees:** Click here to enter text.

☐ **Indian Nation:** Click here to enter text.

☒ **Citizens/Community Group(s):** See Appendix B

☐ **Environmental Justice Group(s):** Click here to enter text.

☐ **Environmental Group(s):** Click here to enter text.

☐ **Civic Group(s):** Click here to enter text.

☐ **Recreational Group(s):** Click here to enter text.

☒ **Other(s):** Schools and daycares, See Appendix B

Prepared/Updated By: Sean Curley/Adrianna Bosco **Date:** 10-8-2025

Reviewed/Approved By: Thomas V. Panzone **Date:** 11-8-25

APPENDIX J
CONSTRUCTION QUALITY ASSURANCE PLAN

IKOS SENIOR LIVING

QUEENS, NEW YORK

Construction Quality Assurance Project Plan

AKRF Project Number: 240854
NYSDEC BCP Number: C241290

Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York 12233

Prepared on Behalf of:

Ikos Senior Living LLC
48-02 25th Avenue, Suite 400
Astoria, NY 11103

Prepared by:

AKRF, Inc.
440 Park Avenue South
New York, New York 10016
(212) 696-0670

JULY 2026

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LIST OF ACRONYMS

Acronym	Definition
BCP	Brownfield Cleanup Project
CAMP	Community Air Monitoring Plan
CQAP	Construction Quality Assurance Plan
FER	Final Engineering Report
HASP	Health and Safety Plan
NYSDEC	New York State Department of Environmental Conservation
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RAWP	Remedial Action Work Plan
SCO	Soil Cleanup Objective
SMMP	Soil/Material Management Plan

1.0 INTRODUCTION

This Construction Quality Assurance Plan (CQAP) has been prepared for remedial activities conducted under the Remedial Action Work Plan (RAWP) that will be performed at the 32-11 31st Street project site located in the Astoria section of the Queens (Tax Block 611, Lot 25) on the New York City Tax Map, and under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP), Site No. C241090. This CQAP supplements the NYSDEC-approved RAWP and provides monitoring, inspection, testing, and documentation protocols and procedures.

The following information is provided:

1. Responsibility, Authority and Qualifications – The responsibility, authority and qualifications of the key personnel involved in the project.
2. Inspection and Testing Activities – Inspections and tests that will be used to verify that construction activities meet or exceed all design criteria and federal, state, and local regulations and requirements.
3. Meetings – The requirements for project coordination meetings between the Volunteer and its representatives, the remedial or environmental Contractors, and other involved parties.
4. Documentation and Reporting – Field documentation and reporting requirements.

2.0 RESPONSIBILITY AND AUTHORITY

Measures will be implemented to ensure that a functional quality control (QC) organization is active during the project and to provide support for the construction QC system in conducting inspections, tests and retesting (in the event of failure of any item of work). This includes oversight of subcontractors and compliance with contract provisions. Construction QC includes, but is not limited to, the inspections and tests required in the RAWP and approved submittals and will cover all project operations. A consultant hired by the BCP Volunteer will manage field activities and coordinate the contractor's activities.

2.1 Volunteer

Ikos Senior Living LLC (the "Volunteer") is responsible for coordinating the project, including activities of the Site consultant, contractor(s) and subcontractor(s), to comply with the requirements of the RAWP and regulatory agencies. The Volunteer is also responsible for completing and submitting documentation required by the RAWP, the CQAP, and the Quality Assurance Project Plan (QAPP) and has the authority to accept or reject the materials and workmanship of any subcontractors at the Site.

2.2 Construction Quality Assurance (QA) Officer (Consultant)

The Construction QA Officer will be an employee of the consultant hired by the Volunteer and will perform activities that are necessary to assure the quality of construction. He/she will be on-site as required during construction activities and will have the authority to take any action necessary to maintain compliance with the RAWP and approved submittals and to monitor construction quality.

Specific responsibilities of the Construction QA Officer include:

- Supporting the Volunteer and the consultant's field staff;
- Evaluating construction activities and activities of the field staff;
- Verifying that remedial activities are performed in accordance with the RAWP, approved submittals, and with federal, state, and local regulations and requirements;
- Verifying that data are properly recorded, validated, reduced, summarized, and inspected;
- Evaluating sampling and monitoring activities;
- Educating the field staff on construction QC requirements and procedures; and
- Scheduling and coordinating inspections.

2.3 Field Team Leader (Consultant)

The Field Team Leader will be an employee of AKRF, Inc. (AKRF) and will be on-site during construction activities. He/she will have authority to take any action necessary to maintain compliance with the RAWP and approved submittals and to maintain construction quality. The Field Team Leader will also manage the field staff discussed in this CQAP.

Specific responsibilities of the Field Team Leader include:

- Reviewing the RAWP for clarity and completeness so that the construction activities can be effectively implemented;
- Verifying that the contractor's work is in accordance with the RAWP, approved submittals, and this CQAP;

- Performing on-site inspection of the work in progress to assess compliance with the RAWP, approved submittals, and this CQAP;
- Scheduling and coordinating inspections;
- Reporting the results of all observations and tests as the work progresses and modifying materials and work to comply with the RAWP and approved submittals as noted below:
    1. Providing daily reports on field construction, material shipments, and inspection results.
    2. Review and interpretation of all data, drawings, and reports.
    3. Identification of all work that should be accepted, rejected, or uncovered for observation, or that may require special testing, inspection, or approval.
    4. Rejection of defective work and verification that corrective measures are implemented.
    5. Making observations and records that will aid in the preparation of a report on remedial activities.
- Inspecting each delivery of materials and/or equipment;
- Reporting to the Construction QA Officer the results of all inspections, including work that is not of acceptable quality or that fails to meet the requirements of the RAWP, approved submittals, and this CQAP;
- Verifying that testing equipment meets established requirements that the tests are conducted according to the proper standardized procedures;
- Confirming that testing equipment, personnel, and procedures do not change over time, or making sure that any changes do not adversely impact the inspection process;
- Confirming that regular calibration of testing equipment occurs and is properly recorded; and
- Confirming that waste treatment or disposal is performed in accordance with applicable federal, state, and local laws and regulations.

2.4 Site Technician (Consultant)

A qualified scientist, geologist, or engineer (supplemented by additional personnel, if necessary) from AKRF will be on-site during remedial construction documenting site personnel, equipment, samples collected, contamination observations and any other observations of field activities. Specific responsibilities include:

- Calibration, operation, and maintenance of air monitoring instrumentation in accordance with the RAWP and approved submittals;
- Collecting, packaging, and shipping of environmental samples in accordance with the RAWP and QAPP;
- Documenting sample collection in a field notebook and identifying all sample locations in a field notebook or Site drawing;
- Preparing and logging manifests for transportation of any non-hazardous and hazardous materials;

- Informing the Site Project Coordinator when (if) the concentrations of air contaminants exceed action levels specified in the RAWP; and
- Maintaining and organizing the field equipment and supply storage area.

3.0 FIELD QUALITY CONTROL (QC) INSPECTIONS, TESTING, AND SAMPLING

The definable features of work are described in Sections 5.0 and 6.0 of the RAWP. This section describes the anticipated inspection, testing, and sampling requirements associated with these definable features of work.

3.1 Mobilization

Inspections will be performed to assure that Site laydown areas, support facilities, surface water controls, and air monitoring systems are established in accordance with the RAWP and approved submittals. In addition, the stakeout of existing utilities in work areas and the maintenance of Site security will be verified. There are no testing and sampling requirements associated with mobilization of the contractor(s).

Each delivery of materials and/or equipment will be inspected relative to approved submittals. Approved materials and/or equipment will be stored at a designated area of the Site.

Equipment will be set-up and tested in accordance with the RAWP and approved submittals.

3.2 Soil Excavation

The Soil/Materials Management Plan (SMMP), Section 6.4 of the RAWP, outlines the procedures to be performed during the handling of soil/fill materials on-site during all intrusive work. Inspections will be performed during soil excavation activities including concrete removal, soil excavation, stockpiling, and load out, shoring, and re-use and backfilling (if any). Any impacts to building structural elements will be documented and assessed immediately. AKRF will confirm that all soil excavation related work will be conducted as specified in the RAWP, or are equivalent. Air monitoring will be conducted as outlined in the Health and Safety Plan (HASP), provided as Appendix G of the RAWP. Soil screening will be conducted as outlined in Section 6.4.1 of the RAWP. Any corrective actions will be summarized in the Daily Reports.

3.3 Soil Sampling

Soil sampling activities at the Site include waste classification sampling, endpoint and/or reuse sampling, and sampling of clean backfill from off-site sources. Proposed endpoint sample locations have not yet been established. All soil sampling activities will be conducted in accordance with the QAPP and Sections 6.2 and 6.4 of the RAWP. The applicable Soil Cleanup Objectives (SCOs) for this Site are the Track 4 Restricted Residential SCOs (RRSCOs).

Soil and materials management on-site and off-site will be conducted in accordance with the SMMP (Section 6.4 of the RAWP).

3.4 Loading of Waste Material for Transportation

Inspections will be conducted to verify that material removed from the Site is properly loaded for transfer to a permitted treatment/disposal facility. Manifests and bills of lading will be maintained and will be included as an Appendix in the Final Engineering Report (FER).

3.5 Site Restoration

Site restoration will be observed and recorded to verify compliance with the RAWP and approved submittals. The surface will be restored to match the surrounding ground surface.

4.0 MEETINGS

A pre-construction meeting will be held with representatives of NYSDEC, the consultants, and contractor(s) performing the work prior to the start of major construction activities. Additional meetings will be called as necessary if work conditions change or deviations are necessary.

Project personnel and visitors will be given health and safety briefings periodically by the Site Technician or Field Team Leader to assist Site personnel in safely conducting their work activities. The safety briefings will include information on new operations to be conducted, changes in work practices or changes in the Site's environmental conditions, as well as periodic reinforcement of previously discussed topics.

5.0 DOCUMENTATION AND REPORTING REQUIREMENTS

The value of the CQAP will be assured by proper documentation. The inspectors will use data sheets, field reports, log forms, schedules, and checklists to document Site work and verify compliance with the RAWP and approved submittals. Documentation will include, at a minimum, the following reports and information:

Daily field construction reports;

Photographs;

Sampling chains of custody;

Material disposition logs; and

Variances to the RAWP and approved submittals.

5.1 Daily Report

The Site Technician or Field Team Leader will prepare a daily report that identifies the following:

- Work force and visitors to the Site;
- An update of progress made during the reporting day;
- Locations of work and quantities of material imported and exported from the Site;
- References to alphanumeric grid map for Site activities;
- A summary of any and all complaints with relevant details (names, phone numbers);
- A summary of Community Air Monitoring Plan (CAMP) findings, including excursions;
- Apparent deviations from the RAWP;
- Weather conditions;
- Photographs of the Site and pertinent work; and
- An explanation of notable Site conditions.

5.2 Photographic Log

The photographic log will be kept to document construction activities by still photographs. The photographic log may also be used to record activities recorded in the daily report. All photographs will be taken with a camera capable of producing date and timestamps.

5.3 Sampling Documentation

The project field book will be used to document all sampling activities and how they correspond to the RAWP. All observations and field and/or laboratory tests will be recorded in the project field book or on separate logs. Recorded field observations may take the form of notes, charts, sketches, or photographs.

5.4 Material Disposition Tracking

All materials that are taken off-site for disposal will be tracked and final disposition confirmed. Copies of all waste manifests and bills of lading will be maintained by the Project Manager.

5.5 Variances to Remedial Action Work Plan (RAWP)

Required changes to the RAWP will be documented as construction proceeds. Any material deviations from the NYSDEC-approved RAWP will be communicated to the NYSDEC Project Manager. NYSDEC approval will be sought prior to proceeding with work deviating materially from the RAWP. In the event of an emergency change to the work plan, the NYSDEC Project Manager will be consulted immediately.

5.6 Final Engineering Report (FER)

At the completion of the project the consultant/construction manager will prepare an FER. This report will describe the implementation of the RAWP and will include a summary of the field work, as-built drawings for constructed elements, manifests, bills of lading, test results demonstrating that all mitigation and remedial systems are functioning properly, and photographic documentation. The FER will also include a description of the changes in the Remedial Action from the elements provided in the RAWP.

5.7 Document Storage

The Field Team Leader will maintain the current field book and all original field paperwork during the performance of work. The Project Manager will maintain the field paperwork after completion and will maintain all submittal document files.

APPENDIX K
IMPORT REQUEST FORM

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

Site Name:

Site Number:

The allowable site use is: Choose an item

Have Ecological Resources been identified? Choose an item

Is this soil originating from the site? Choose an item

How many cubic yards of soil will be imported/reused? Choose an item

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? Choose an item

Does it contain less than 10%, by weight, material that passes a size 100 sieve? Choose an item

Is this virgin material from a permitted mine or quarry? Choose an item

Is this material recycled concrete or brick from a DEC registered processing facility? Choose an item

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Name and address of fill source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

_____ _____

Signature Date

_____

Print Name

_____

Firm