

WAREHOUSE BUILDING
28-12 41ST AVENUE
LONG ISLAND CITY, NEW YORK 11101
NEW YORK CITY TAX ID: BLOCK 417, LOT 20

PHASE II
ENVIRONMENTAL SITE ASSESSMENT
(ASTM 1903-11)



PREPARED FOR:

iCross Capital
28-07 Jackson Avenue, 8th Floor
Long Island City, New York 11101

PREPARED BY:



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28-12 41ST AVENUE, LONG ISLAND CITY, NEW YORK 11101

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1.0 INTRODUCTION AND SCOPE OF WORK

iCross Capital (Client) retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase II Environmental Site Assessment (ESA) for the property located at 28-12 41st Avenue in Long Island City, New York. The purpose of this Phase II ESA was to further evaluate recognized environmental conditions (RECs) identified in the April 2021 Phase I ESA prepared by PWGC to obtain sound, scientifically valid data concerning actual property conditions.

The scope of work for this Phase II ESA is based on the findings of the aforementioned April 2021 Phase I ESA which identified the following RECs:

- According to provided historical documents and reasonably ascertainable information, the site has historically been used for metal works, dry cleaning, and auto repair. Such activities commonly use petroleum product and chlorinated solvents as part of their routine operations. Improper storage and handling of such materials can potentially impact the subsurface. PWGC identified the site's history for metal works, dry cleaning, and auto repair as a REC.
- During the site reconnaissance, PWGC identified a metal-rimmed object approximately three inches in diameter in the sidewalk adjacent to the northwest corner of the building indicative of a possible former fill port for a UST. PWGC did not identify an AST or UST within the property and the site is currently connected to natural gas; however, this metal rimmed object can potentially be associated with a UST under the sidewalk which was used for storing heating oil prior to the site's conversion to natural gas heat. Improperly abandoned USTs are prone to corrosion and leaks which can go unchecked and impact the subsurface. PWGC identified the potential presence of a UST beneath the sidewalk in front of the building on site to be a REC.
- The subject property is listed as an E-Designation site (E-104) for Hazardous Materials with Phase I and Phase II testing protocol required. Based on this potential PWGC believes that this represents a REC for the subject property.

Based on the identified RECs, PWGC recommended a Phase II ESA be performed at the subject property which should include the following tasks:

- Geophysical survey focusing on the potential UST location.
- Subsurface investigation including soil, groundwater, and soil vapor sampling.



The activities of this Phase II ESA were conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1903-11 (Standard Practices for Environmental Site Assessment: Phase II Environmental Site Assessment Process) and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation, May 2010 (DER-10).

2.0 BACKGROUND

2.1 Site Description and Features

The subject property consists of one parcel located at 28-12 41st Avenue in Long Island City, New York. The subject property is located in the borough of Queens and Queens County, which is located in the City of New York. The property is identified in the New York City Tax Map as Block 417, Lot 20. A Site Location figure is included as **Figure 1** and a Site Plan illustrating the boundaries of the site is included as **Figure 2**. The subject property measures approximately 5,000 square feet and is improved with a one story, slab-on-grade warehouse building which occupies the entirety of the lot. The building is currently vacant.

2.2 Physical Setting

The topography of the subject property and surrounding area was reviewed from the USGS 7.5-minute series topographic map for the Central Park, New York quadrangle. The property elevation is approximately thirty-three feet above the National Geodetic Vertical Datum (NGVD). Regional physiographic conditions are summarized below.

2.2.1 Regional Geology / Hydrogeology

The geologic setting of Long Island is well documented and consists of crystalline bedrock composed of schist and gneiss overlain by layers of unconsolidated deposits. Immediately overlying the bedrock is the Raritan Formation, consisting of the Lloyd sand confined by the Raritan Clay Member. The Lloyd sand is an aquifer and consists of discontinuous layers of gravel, sand, sandy and silty clay, and solid clay. The Raritan Clay is a solid and silty clay with few lenses of sand and gravel, abundant lignite and pyrite, and gray, red, or white in color.

Above the Raritan Clay lies the Magothy Formation. The Magothy Aquifer consists of layers of fine to coarse sand of moderate to high permeability, with inter-bedded lenses of silt and clay of low permeability resulting in areas of preferential horizontal flow; therefore, this aquifer generally becomes more confined with depth. The Magothy Aquifer is overlain by the Upper Glacial Aquifer. The Upper Glacial Aquifer is the water table aquifer at this location and is comprised of medium to coarse sand and gravel with occasional thin lenses of fine sand and



brown clay. This aquifer extends from the land surface to the top of the Magothy Aquifer; therefore, is hydraulically connected to the Magothy Aquifer. Based on the findings of the subsurface investigation included in this Phase II ESA, groundwater is located approximately 22 feet below grade. Based on review of regional groundwater contour maps prepared by the United States Geological Survey (USGS), groundwater flow is generally to the southwest.

2.3 Site History and Land Use

Based on review of historic sources as part of the April 2021 Phase I ESA, the subject property was first developed prior to 1898 with two one-story garage buildings which were associated with residential dwellings on neighboring properties. In 1915, The two garage buildings were no longer present and two residential dwellings were present on the northern half of the property. From 1936-1950, two residential dwellings were still present on the northern portion of the site and two shed buildings were built on the southern portion of the site. By 1970, one of the two residential dwellings and one of the shed buildings was removed from the property. The area which formally contained these structures appears to have not been redeveloped at this time. In 1971, the building which currently occupies the entire property is constructed. According to historical information, the subject property has been used for metal works, dry cleaning, and auto repair.

2.4 Adjacent Property Land Use

Based on review of historical sources as part of the April 2021 Phase I ESA, the area surrounding the subject property to the north is currently utilized as a public high school, the property to the west is used for parking, the property to the east is utilized as a mixed use building which includes a deli and bakery, and the property to the south is being utilized as a mixed use commercial and residential building.



3.0 PHASE II ESA FIELD ACTIVITIES AND FINDINGS

3.1 Scope of Assessment and Rationale

The Phase II ESA documented in this report included the following tasks:

- Geophysical survey focusing on the potential UST area, as well as surveying the entire property to investigate for unknown subgrade objects.
- Installation of four soil borings, SB001 to SB004, to 25 feet below grade to determine if impact to the subsurface caused by historical building operations exists.
- Collection of two groundwater samples, GW001 and GW002, from the site from 21 to 25 feet below grade to assess if groundwater has been impacted by historical site operations or from potential off site sources of contamination.
- Collection of two soil vapor samples, SV001 and SV002, at 2-inches below grade. Soil vapor samples were collected to assess if soil vapor has been impacted by historical site operations or from potential off site sources of contamination.

3.2 Geophysical Survey

On Wednesday, April 21, 2021, PWGC and Associated Environmental Services, Ltd. (Associated) of Hauppauge, New York mobilized to the subject property to perform a geophysical survey. The purpose of the geophysical survey was to determine the absence or presence of a UST along the northern portion of the property underneath the sidewalk, as noted by a potential fill port observed during the April 2021 Phase I ESA, and to investigate for the presence of other subsurface objects such as USTs or drywells that would warrant further investigation.

3.2.1 Electromagnetic Survey

Associated utilized a Fisher M-Scope TW-6 electromagnetic (EM) instrument. The M-Scope uses the principle of EM induction to measure the variability of electrical conductivity of subsurface materials and the presence of buried metal objects. Significant contrasts in the electrical properties between non-indigenous materials and surrounding soil enable accurate delineation of buried waste materials, fill, and geologic features. The large EM response to metal makes this technique particularly well suited to identifying buried metal objects such as underground storage tanks (USTs), metallic wastes, buried drums, pipelines, reinforced building foundations, and other metal components of buried structures. It is, however, equally sensitive to metal objects on the ground surface.



3.2.2 *Ground Penetrating Radar Survey*

Following the electromagnetic survey, Associated utilized a Geophysical Survey Systems Inc. SIR-3000 cart-mounted Ground Penetrating Radar (GPR) unit to further investigate metallic anomalies. The GPR method is based upon the transmission of repetitive, radio-frequency electromagnetic (EM) pulses into the subsurface. When the transmitted energy of down-going wave contacts an interface of dissimilar electrical character, part of the energy is returned to the surface in the form of a reflected signal. This reflected signal is detected by a receiving transducer and is displayed on the screen of the GPR unit as well as being recorded on the internal hard drive.

3.2.3 *Survey Findings*

The findings of the geophysical survey included the following:

- Subsurface anomalies indicative of USTs, or other subgrade structures such as drywells, were not identified at the property, including the northwestern portion of the site where an object potentially indicative of a fill port was identified in the April 2021 Phase I ESA performed by PWGC.

Based on the results of the geophysical survey, there does not appear to be a UST present at the property. A copy of the geophysical report prepared by Associated is included as **Appendix A**.

3.3 **Soil Quality Investigation**

3.3.1 *Soil Boring Protocol and Soil Descriptions*

Associated Environmental Services, Inc. of Hauppauge, New York (Associated) provided environmental drilling services on Wednesday, April 21, 2021. A Geoprobe® 6610DT direct-push drill rig was utilized to install the four soil borings.

Soils were collected continuously from ground surface to a depth of 25 feet below grade at each boring location, SB001 to SB004, to observe the underlying strata beneath the building down to the saturated zone at the water table. This depth allowed for the investigation of shallow soils which are most prone to being impacted by historical building operations and the saturated soils at the water table level to determine if potential off site impacts are affecting the subject property, or if impact originating from the subject property is at risk for migrating off site. Soil cores were placed on a table covered with 10-mil polyethylene sheeting in the order they came out of the ground. The acetate liners were cut open and the soil core was screened for the presence of volatile organic compounds (VOCs) utilizing a photoionization detector (PID). Each soil core was classified by a hydrogeologist using the Unified Soil Classification System (USCS). Soils observed at each the borings generally

consisted of historic fill material comprised of brown, medium to coarse sands with gravel and pieces of concreted entrained in the matrix from grade to a depth of approximately 7 feet. From 7 feet to 15 feet below grade: soils consisted of medium grained light brown sand with trace fines. From 15 to 25 feet below grade: soils consisted of brown fine sands with some silt. At SB001 and SB003, no visual or olfactory evidence of contamination were observed. At SB002 and SB004, soils appeared to have minor staining with black coloration at 3 to 5 feet below grade and 5 to 7 feet below grade, respectively; however, no odors were observed at SB002 and SB004. PID readings did not exceed 0.0 parts per million (ppm) at each of the four boring locations. At each location, the groundwater table was observed to be at approximately 22 feet below grade.

Soil Boring Logs are included as **Appendix B**.

3.3.2 *Sample Collection Protocol*

Soil samples were collected from the following locations and depths for the reasoning included below:

- SB001, located at the southeastern portion of the site. Collected sample from 0-2 feet below grade to investigate if historical building operations have impacted the subsurface.
- SB002, located at the southwestern portion of the site. Collected sample from 3-5 feet below grade to determine if the observed staining is potentially associated with subsurface contamination and to investigate if historical building operations have impacted the subsurface.
- SB003, located at the northwestern portion of the site. Collected sample from 0-2 feet below grade to investigate if historical building operations have impacted the subsurface.
- SB004, located at the northeastern portion of the site. Collected sample from 5-7 feet below grade to determine if the observed staining is associated with subsurface contamination and to investigate if historical building operations have impacted the subsurface.

These four soil samples were analyzed for the following parameters:

- VOCs by United State Environmental Protection Agency (USEPA) Method 8260 - Target Compound List (TCL)
- Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270 - (TCL)
- Metals by USEPA Method 6010/7174 – Target Analyte List (TAL)

Soil boring locations are illustrated on **Figure 2**.



Samples collected for VOC analysis were collected directly from the acetate liners utilizing Encore sampling devices. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized. Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to Alpha Analytical of Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory (ELAP ID 11148), for the analyses listed above.

3.3.3 Soil Analytical Results

Soil sample analytical results were compared to the NYSDEC's Title 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and Final Commissioner Policy, CP-51 soil cleanup objectives (SCOs) for unrestricted use (unrestricted SCOs) and restricted residential use (restricted residential SCOs).

VOCs were not detected at concentrations greater than unrestricted use SCOs in the four soil samples collected at the property, including benzene, toluene, ethylbenzene, and xylenes, collectively referred to as BTEX, and commonly associated with auto repair facilities, were not detected at each sampling location. Although not detected at a concentrations greater than unrestricted SCOs, tetrachloroethene was detected at SB001 (0-2'), SB002 (3-5') and SB003 (0-2') at concentrations of 17 µg/kg, 77 ug/kg, and 0,78 µg/kg respectively.

Soil analytical results for SVOCs included concentrations greater than restricted residential SCOs at SB001 (0-2'), SB002 (3-5') and SB003 (0-2'). SVOC compounds which were detected at concentrations greater than restricted residential SCOs at these three locations included benzo(a)anthracene, benzo(b)pyrene, benzo(b)fluoranthene, and Indeno(1,2,3-cd)pyrene. Chrysene was detected at concentrations greater than unrestricted SCOs at these three locations; however, chrysene concentrations were less than restricted residential SCOs. Soil sample results for SB001 (0-2') also included a concentration of Benzo(k)fluoranthene greater than unrestricted SCOs and a concentration of dibenzo(a,h)anthracene greater than restricted residential SCOs. Concentrations of SVOCs at SB004 (5-7') were less than unrestricted SCOs.

Soil analytical results for metals included concentrations greater than restricted residential SCOs at SB001 (0-2'), SB002 (3-5') and SB003 (0-2'). Metals which were detected at concentrations greater than restricted residential SCOs included lead at each of these three locations, mercury at SB002 (3-5') and SB003 (0-2'), and copper at SB003 (3-5'). Zinc was detected at a concentration greater than unrestricted SCOs, however less than restricted residential SCOs, at SB001 (0-2'), SB002 (3-5') and SB003 (0-2'). Concentrations of metals were detected to be



less than unrestricted SCOs at SB004 (5-7') with the exception of lead. However, the concentration of lead detected at SB004 (5-7') was less than restricted residential SCOs.

In general, analytical results for the soil samples collected during this investigation, namely for SVOCs and metals, are indicative of historic fill, which was observed in the subsurface from the ground-floor level to a depth of approximately seven feet below grade. Although not detected at concentrations greater than unrestricted use SCOs, the analytical results for the VOC tetrachloroethene detected in soil samples indicates that there is a potential source of impact at the subject property which is possibly associated with the subject property's historical use. The staining observed at SB002 and SB004 does not appear to be associated with a significant source of subsurface impact.

Analytical results the four soil samples are detailed in **Tables 1** through **3** and the complete laboratory analytical report is included in **Appendix C**.

3.4 Groundwater Quality Evaluation

3.4.1 Groundwater Assessment and Descriptions

To assess groundwater quality beneath the subject property, two groundwater samples, GW001 and GW002, were collected from temporary groundwater sampling points. At each of the two groundwater sampling locations, Associated Environmental installed a 4-foot long stainless-steel groundwater sampling screen using a Geoprobe® 6610DT direct-push drill rig. The sampling screen was attached to hollow drilling rods which allowed for a sample collection device to be lowered through the rods and into the center of the screen. As the groundwater depth was observed to be approximately 22 feet below grade, the sampling screen was placed at 21 to 25 feet below grade to match the elevation of the top of the groundwater surface. The placement of the sampling screen at this depth was to account for capturing potential petroleum hydrocarbon compounds which float at the surface of the water table, if present. Disposable polyethylene tubing was inserted into the water bearing zone of the sampling screen and outfitted with a stainless-steel check valve. The locations and rationale for collecting groundwater samples at these locations is summarized as follows:

- GW001, installed on the southeastern and downgradient portion of the site at the location of SB001. Collected to determine if potential impact to groundwater associated with the site's historical use exists and, if present, is at risk for migrating off site.
- GW002, installed on the northwestern and upgradient portion of the site at the location of SB003. Collected to determine if potential impact to groundwater associated with the site's historical use exists,



and to determine if off site sources of contamination are impacting groundwater beneath the subject property.

During purging activities, groundwater was observed to be turbid with a brown coloration, likely associated with the presence of high silt content at this interval. Evidence of contamination such as petroleum or chemical odors or a sheen was not observed at either groundwater sampling locations. The locations of the groundwater sampling points are illustrated on **Figure 2**.

3.4.2 Sampling Collection Protocol

Once the groundwater sampling apparatus was installed, approximately four casing volumes of water (approximately 1 gallon) were purged from the temporary sampling points prior to the collection of samples.

Samples were collected in pre-cleaned laboratory supplied glassware and stored on ice in a cooler for transport to Alpha for analysis. The two groundwater samples were collected for the following parameters:

- TCL VOCs by USEPA Method 8260
- TCL SVOCs by USEPA Method 8270
- Total and dissolved TAL Metals by USEPA Method 6010/7174.

Dissolved metals were analyzed to more accurately reflect metal concentrations that have dissolved in the groundwater and have potential to mobilize to other parts of the property or off site. Given that total metals have an affinity to adhere to soil and colloidal particles, elevated metals can be seen in turbid groundwater samples typically obtained during the sampling process. The comparison of total to dissolved analysis demonstrate which metals truly exist dissolved into the groundwater rather than what has adhered to the soils.

3.4.3 Groundwater Analytical Results

Groundwater analytical results were compared to NYSDEC ambient groundwater quality standards (AWQS) class GA specified in 6 NYCRR Part 703.

VOCs were not detected at concentrations greater than AWQS at either groundwater sampling locations including BTEX, which were not detected at either sampling location. Although not detected at concentrations greater than AWQS, tetrachloroethylene was detected at a concentration of 0.62 ug/L at GW001 and 2.5 ug/L at GW002. Although these concentrations are considered to be minor, the presence of tetrachloroethene in



groundwater beneath the subject property is potentially associated with the tetrachloroethene detected in the soil samples collected at the site and documented in section 3.3.3 of this report

Groundwater analytical results for SVOCs included concentrations greater than AWQS at both sampling locations including benzo(a)anthracene at GW001 and GW002, and benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene at GW002. Each of these exceedances were estimated detections between the reporting limit and the method detection limit.

Several metals were detected at concentrations greater than AWQS in both groundwater sampling locations for the total metals analysis including barium, chromium, iron, lead, magnesium, manganese, nickel sodium, thallium, and zinc; however, only iron at GW001 and sodium at GW002 were detected at concentrations exceeding AWQS in a dissolved phase. Iron and sodium are naturally occurring elements in groundwater in the region and are not considered to be indicative of subsurface contamination.

The concentrations of SVOCs and total metals identified in groundwater samples are likely attributed to the presence of historic fill throughout the area of the subject property and are not associated with specific source of impact emanating from the subject property or from a neighboring property. The presence of tetrachloroethene detected in groundwater is potentially associated with the concentrations of tetrachlorethylene detected in soil samples collected from the property.

Groundwater analytical results are detailed in **Tables 4** through **6** and the complete laboratory analytical report is included in **Appendix C**.

3.5 Soil Vapor Investigation

To evaluate soil vapor quality at the subject property, a soil vapor investigation was performed. The investigation consisted of installing two temporary soil vapor sampling points on the southern-downgradient portion of the site, SV001, and the northern-upgradient portion of the site, SV002. Soil vapor sampling points were installed by PWGC using a hammer drill.



3.5.1 Sampling Protocol

Sampling was conducted in accordance with the NYSDOH “Guidance for Evaluating Soil Vapor Intrusion in New York State,” (NYSDOH Guidance) October 2006. Soil vapor samples were collected into 2.7-liter Summa® vacuum canisters fitted with two-hour flow controllers. The samplers were batch certified clean by the laboratory.

Temporary soil vapor probes were installed through the subsurface to a depth of two inches below grade to capture vapors potentially accumulating beneath the building’s foundation. Vapor probes were composed of polyethylene tubing which was shrouded with #2 Morrie and sealed with a bentonite slurry. Prior to sampling the integrity of the sampling port seals was tested using tracer gas analysis. The environment surrounding the seal was enriched with a tracer gas, helium, as readings were collected through the sampling probe with a portable helium detector. Tracer gas readings collected from each soil vapor probe were acceptable indicating the seals were intact and the sampling probes were acceptable for sample collection.

After the initial tracer gas test was performed, one to three volumes of the sample tubing were purged prior to collecting samples using the vacuum of a PID. During purging activities, PID readings did not exceed 0.0 ppm. Soil vapor samples were submitted to Alpha Analytical and analyzed for the following parameters:

- VOCs by USEPA Method TO-15.

3.5.2 Analytical Results

Analytical results for soil vapor were compared to the USEPA Vapor Intrusion Screening Levels (VISL) for default residential target sub-slab and exterior soil gas concentrations, updated November 2020.

VOCs were not detected at concentrations above the VISL at each of the soil vapor sampling locations, with the exception of tetrachloroethene. Tetrachloroethene was detected at concentration of 1,710 $\mu\text{g}/\text{m}^3$ at SV001, which is greater than the VISL of 1,390 $\mu\text{g}/\text{m}^3$. Tetrachloroethene was also detected at a concentration of 139 $\mu\text{g}/\text{m}^3$ at SV002.

The elevated concentration of tetrachloroethene at SV001 was detected near the location of SB002, where tetrachloroethene was detected in the soil sample. Based on this, there is the potential that the soil vapor impact detected at SV001 is associated with an on site source which is possibly related to the subject property’s historical uses.



Analytical results for the soil vapor and outdoor air samples are shown on **Table 7**. The laboratory data report is included as **Appendix C**.



4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

Based on the findings of this Phase II ESA, PWGC offers the following conclusions:

- Based on the results of the geophysical investigation there does not appear to be USTs present at the property.
- Historic fill material was observed beneath the building from grade to an approximate depth of seven feet. Based on soil analytical results, the historic fill material is impacted with SVOCs and metals at concentrations greater than restricted residential SCOs.
- Based on the soil vapor analytical results, namely SV001, soil vapor appears to be impacted with tetrachloroethene. Based on the detected concentrations of tetrachloroethene in soil samples collected during this investigation, particularly SB002 (3-5'), there is the potential that impact to soil vapor is associated with an on site source of contamination, potentially associated with the site's historical uses.
- Based on groundwater sample analytical results, there does not appear to be a significant impact to groundwater indicative of a specific source of contamination; however, the minor concentrations of tetrachloroethene detected in groundwater are potentially associated with an on site source of impact, possibly related to the site's historical uses.

4.2 Recommendations

Based on the conclusions detailed above, PWGC offers the following recommendations for the subject property:

- The historic fill material identified to be underneath the building from grade to an approximate depth of seven feet is identified to be impacted with SVOCs and metals greater than restricted residential SCOs. PWGC recommends that this material be handled in accordance with local, state, and federal rules and regulations in the event that this material is disturbed and/or removed from the property as part of future site activities.
- Prior to potential future site redevelopment activities, an additional subsurface investigation is recommended of the southwestern portion of the property to investigate if a significant source of tetrachloroethene impact exists at the property which would warrant remediation.
- Due to the presence of elevated concentrations of tetrachloroethene in soil vapor, a soil vapor mitigation system such as a vapor barrier or sub-slab depressurization system (SSDS) is recommended as part of potential future site redevelopment activities.



5.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Ryan Morley, PG
Project Manager

Jennifer Lewis, PG
Senior Project Manager

Report Completion Date: May 19, 2021



6.0 REFERENCES

6 NYCRR Part 375 Environmental Remediation Programs Subparts 375-1 to 375-4 & 375-6.

6 NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations.

CP-51 / Soil Cleanup Guidance.

DER-10 / Technical Guidance for Site Investigation and Remediation.

Standard practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, ASTM Standard E 1903-11.



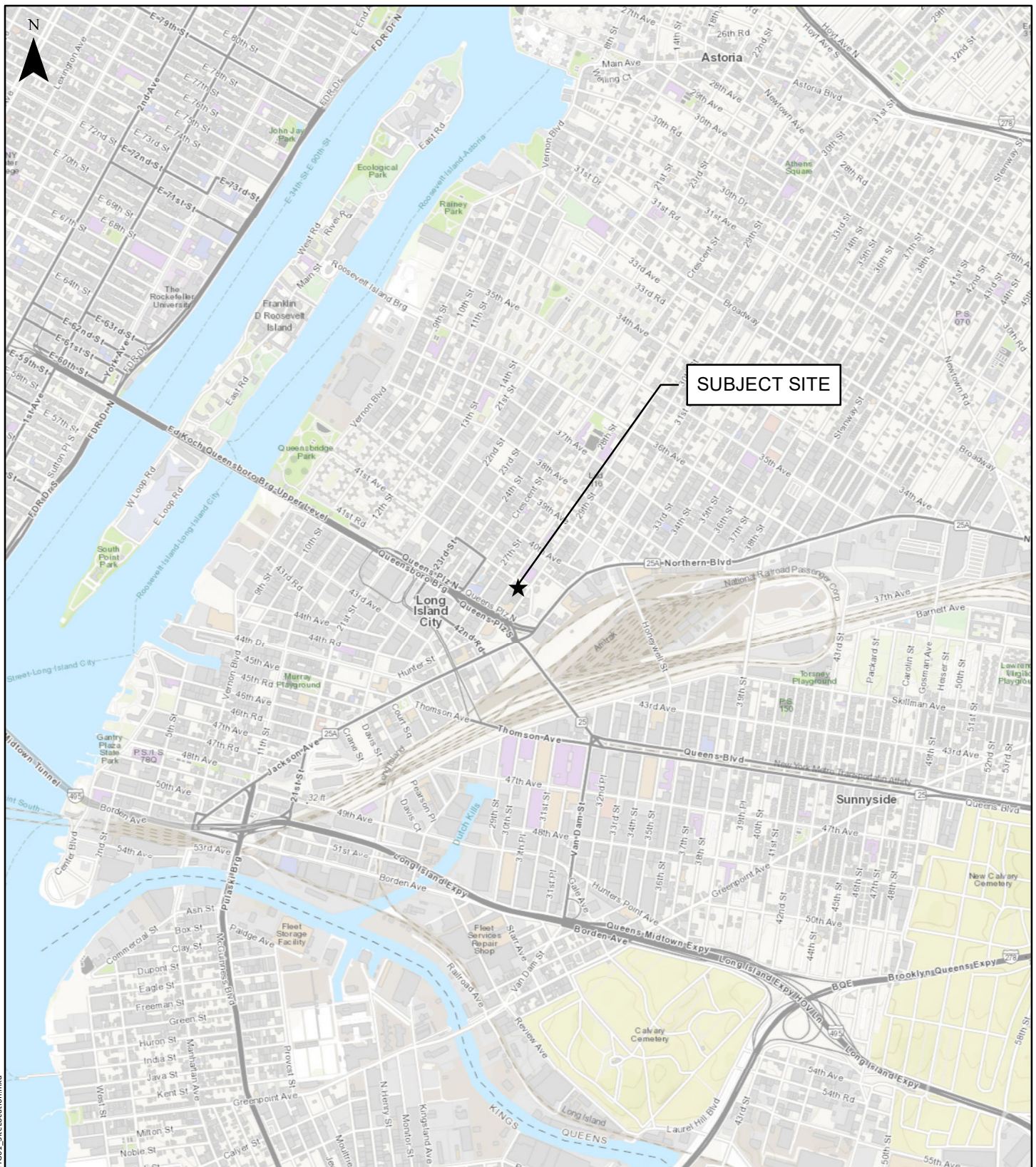
7.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections and examination of records prepared by others. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.
2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by PWGC.
4. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
5. This report is based, in part, on information supplied to PWGC by third-party sources. While efforts have been made to substantiate this third-party information, PWGC cannot attest to the completeness or accuracy of information provided by others.

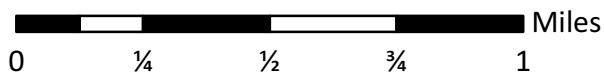


FIGURES



SITE LOCATION

28-12 41st Avenue
Long Island City, NY



Project:	ICF2101
Date:	4/8/2021
Designed by:	RM
Drawn by:	UC
Approved by:	RM
Figure No:	1



PWGC
CLIENT DRIVEN SOLUTIONS

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TABLES

Table 1
Soil Sample Analytical Data Summary
Volatile Organic Compounds
28-12 41st Avenue, Long Island City, New York

Client Sample ID: Sample Depth Laboratory ID: Sampling Date:	NYSDEC Part 375 Soil Cleanup Objectives Unrestricted Use	NYSDEC Part 375 Soil Cleanup Objectives Restricted Residential Use	SB001 0-2' L2120445-01 4/21/2021	SB002 3-5' L2120445-02 4/21/2021	SB003 0-2' L2120445-03 4/21/2021	SB004 5-7' L2120445-04 4/21/2021
Volatile Organic Compounds by USEPA method 8260 in ug/kg						
1,1,1,2-Tetrachloroethane	NS	NS	0.5 U	0.56 U	0.68 U	0.67 U
1,1,1-Trichloroethane	680	100,000	0.5 U	0.56 U	0.68 U	0.67 U
1,1,2,2-Tetrachloroethane	NS	NS	0.5 U	0.56 U	0.68 U	0.67 U
1,1,2-Trichloroethane	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
1,1-Dichloroethane	270	26,000	0.99 U	1.1 U	1.4 U	1.3 U
1,1-Dichloroethene	330	100,000	0.99 U	1.1 U	1.4 U	1.3 U
1,1-Dichloropropene	NS	NS	0.5 U	0.56 U	0.68 U	0.67 U
1,2,3-Trichlorobenzene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
1,2,3-Trichloropropane	NS	NS	2 U	2.3 U	2.7 U	2.7 U
1,2,4,5-Tetramethylbenzene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
1,2,4-Trichlorobenzene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
1,2,4-Trimethylbenzene	3,600	52,000	2 U	2.3 U	2.7 U	2.7 U
1,2-Dibromo-3-chloropropane	NS	NS	3 U	3.4 U	4.1 U	4 U
1,2-Dibromoethane	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
1,2-Dichlorobenzene	1,100	100,000	2 U	2.3 U	2.7 U	2.7 U
1,2-Dichloroethane	20	3,100	0.99 U	1.1 U	1.4 U	1.3 U
1,2-Dichloroethene, Total	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
1,2-Dichloropropane	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
1,3,5-Trimethylbenzene	8,400	52,000	2 U	2.3 U	2.7 U	2.7 U
1,3-Dichlorobenzene	2,400	49,000	2 U	2.3 U	2.7 U	2.7 U
1,3-Dichloropropane	NS	NS	2 U	2.3 U	2.7 U	2.7 U
1,3-Dichloropropene, Total	NS	NS	0.5 U	0.56 U	0.68 U	0.67 U
1,4-Dichlorobenzene	1,800	13,000	2 U	2.3 U	2.7 U	2.7 U
1,4-Dioxane	100	13,000	79 U	90 U	110 U	110 U
2,2-Dichloropropane	NS	NS	2 U	2.3 U	2.7 U	2.7 U
2-Butanone	120	100,000	9.9 U	11 U	14 U	13 U
2-Hexanone	NS	NS	9.9 U	11 U	14 U	13 U
4-Methyl-2-pentanone	NS	NS	9.9 U	11 U	14 U	13 U
Acetone	50	100,000	9.9 U	11 U	14 U	13 U
Acrylonitrile	NS	NS	4 U	4.5 U	5.4 U	5.4 U
Benzene	60	4,800	0.5 U	0.56 U	0.68 U	0.67 U
Bromobenzene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
Bromochloromethane	NS	NS	2 U	2.3 U	2.7 U	2.7 U
Bromodichloromethane	NS	NS	0.5 U	0.56 U	0.68 U	0.67 U
Bromoform	NS	NS	4 U	4.5 U	5.4 U	5.4 U
Bromomethane	NS	NS	2 U	2.3 U	2.7 U	2.7 U
Carbon disulfide	NS	NS	9.9 U	11 U	14 U	13 U
Carbon tetrachloride	760	2,400	0.99 U	1.1 U	1.4 U	1.3 U
Chlorobenzene	1,100	100,000	0.5 U	0.56 U	0.68 U	0.67 U
Chloroethane	NS	NS	2 U	2.3 U	2.7 U	2.7 U
Chloroform	370	49,000	1.5 U	1.7 U	2 U	2 U
Chloromethane	NS	NS	4 U	4.5 U	5.4 U	5.4 U
cis-1,2-Dichloroethene	250	100,000	0.99 U	1.1 U	1.4 U	1.3 U
cis-1,3-Dichloropropene	NS	NS	0.5 U	0.56 U	0.68 U	0.67 U
Dibromochloromethane	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
Dibromomethane	NS	NS	2 U	2.3 U	2.7 U	2.7 U
Dichlorodifluoromethane	NS	NS	9.9 U	11 U	14 U	13 U
Ethyl ether	NS	NS	2 U	2.3 U	2.7 U	2.7 U
Ethylbenzene	1,000	41,000	0.99 U	1.1 U	1.4 U	1.3 U
Hexachlorobutadiene	NS	NS	4 U	4.5 U	5.4 U	5.4 U
Isopropylbenzene	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
Methyl tert butyl ether	930	100,000	2 U	2.3 U	2.7 U	2.7 U
Methylene chloride	50	100,000	5 U	5.6 U	6.8 U	6.7 U
n-Butylbenzene	12,000	100,000	0.99 U	1.1 U	1.4 U	1.3 U
n-Propylbenzene	3,900	100,000	0.99 U	1.1 U	1 U	1.3 U
Naphthalene	12,000	100,000	4 U	4.5 U	5.4 U	5.4 U
p-Chlorotoluene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
p-Xylene	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
p-Chlorotoluene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
p-Diethylbenzene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
p-Ethyltoluene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
p-Isopropyltoluene	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
p/m-Xylene	NS	NS	2 U	2.3 U	2.7 U	2.7 U
sec-Butylbenzene	11,000	100,000	0.99 U	1.1 U	1.4 U	1.3 U
Styrene	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
tert-Butylbenzene	5,900	100,000	2 U	2.3 U	2.7 U	2.7 U
Tetrachloroethene	1,300	19,000	17	77	0.68 U	0.78
Toluene	700	100,000	0.99 U	1.1 U	1.4 U	1.3 U
trans-1,2-Dichloroethene	190	100,000	1.5 U	1.7 U	2 U	2 U
trans-1,3-Dichloropropene	NS	NS	0.99 U	1.1 U	1.4 U	1.3 U
trans-1,4-Dichloro-2-butene	NS	NS	5 U	5.6 U	6.8 U	6.7 U
Trichloroethene	470	21,000	0.5 U	0.64	0.68 U	0.67 U
Trichlorofluoromethane	NS	NS	4 U	4.5 U	5.4 U	5.4 U
Vinyl acetate	NS	NS	9.9 U	11 U	14 U	13 U
Vinyl chloride	20	900	0.99 U	1.1 U	1.4 U	1.3 U
Kylenes, Total	260	100,000	0.99 U	1.1 U	1.4 U	1.3 U

Notes:
New York NYCRR Part 375 Protection of Restricted Residential Use SCO and Unrestricted Use - October 21, 2010
NS - No Standard
D - result is from an analysis that required a dilution
J - analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U - analyte not detected at or above the level indicated
Highlighted text denotes concentrations exceeding Unrestricted Use SCOs
Highlighted text denotes concentrations exceeding Restricted Residential SCOs

Table 2
Soil Sample Analytical Data Summary
Semivolatile Organic Compounds
28-12 41st Avenue, Long Island City, New York

Client Sample ID: Sample Depth Laboratory ID: Sampling Date:	NYSDEC Part 375 Soil Cleanup Objectives Unrestricted Use	NYSDEC Part 375 Soil Cleanup Objectives Restricted Residential Use	SB001 0-2' L2120445-01 4/21/2021	SB002 3-5' L2120445-02 4/21/2021	SB003 0-2' L2120445-03 4/21/2021	SB004 5-7' L2120445-04 4/21/2021
Semivolatile Organic Compounds by USEPA method 8270 in ug/kg						
1,2,4,5-Tetrachlorobenzene	NS	NS	170 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	NS	NS	170 U	190 U	180 U	180 U
1,2-Dichlorobenzene	1,100	100,000	170 U	190 U	180 U	180 U
1,3-Dichlorobenzene	2,400	49,000	170 U	190 U	180 U	180 U
1,4-Dichlorobenzene	1,800	13,000	170 U	190 U	180 U	180 U
1,4-Dioxane	100	13,000	26 U	28 U	27 U	27 U
2,4,5-Trichlorophenol	NS	NS	170 U	190 U	180 U	180 U
2,4,6-Trichlorophenol	NS	NS	100 U	110 U	110 U	110 U
2,4-Dichlorophenol	NS	NS	150 U	170 U	160 U	160 U
2,4-Dimethylphenol	NS	NS	170 U	190 U	180 U	180 U
2,4-Dinitrophenol	NS	NS	820 U	900 U	880 U	860 U
2,4-Dinitrotoluene	NS	NS	170 U	190 U	180 U	180 U
2,6-Dinitrotoluene	NS	NS	170 U	190 U	180 U	180 U
2-Chloronaphthalene	NS	NS	170 U	190 U	180 U	180 U
2-Chlorophenol	NS	NS	170 U	190 U	180 U	180 U
2-Methylnaphthalene	NS	NS	100 J	97 J	30 J	210 U
2-Methylphenol	330	100,000	170 U	190 U	180 U	180 U
2-Nitroaniline	NS	NS	170 U	190 U	180 U	180 U
2-Nitrophenol	NS	NS	370 U	400 U	390 U	390 U
3,3'-Dichlorobenzidine	NS	NS	170 U	190 U	180 U	180 U
3-Methylphenol/4-Methylphenol	330	100,000	29 J	270 U	260 U	260 U
3-Nitroaniline	NS	NS	170 U	190 U	180 U	180 U
4,6-Dinitro-o-cresol	NS	NS	440 U	490 U	470 U	460 U
4-Bromophenyl phenyl ether	NS	NS	170 U	190 U	180 U	180 U
4-Chloroaniline	NS	NS	170 U	190 U	180 U	180 U
4-Chlorophenyl phenyl ether	NS	NS	170 U	190 U	180 U	180 U
4-Nitroaniline	NS	NS	170 U	190 U	180 U	180 U
4-Nitrophenol	NS	NS	240 U	260 U	260 U	250 U
Acenaphthene	20,000	100,000	420	250	67 J	140 U
Acenaphthylene	100,000	100,000	370	120 J	190	140 U
Acetophenone	NS	NS	170 U	190 U	180 U	180 U
Anthracene	100,000	100,000	1,200	620	360	110 U
Benzo(a)anthracene	1,000	1,000	3,400	1,600	1,800	110 U
Benzo(a)pyrene	1,000	1,000	3,300	1,500	1,800	140 U
Benzo(b)fluoranthene	1,000	1,000	4,200	1,800	2,000	110 U
Benzo(ghi)perylene	100,000	100,000	2,000	820	970	140 U
Benzo(k)fluoranthene	800	3,900	1,300	730	780	110 U
Benzoic Acid	NS	NS	550 U	610 U	590 U	580 U
Benzyl Alcohol	NS	NS	170 U	190 U	180 U	180 U
Biphenyl	NS	NS	390 U	430 U	2,200	410 U
Bis(2-chloroethoxy)methane	NS	NS	180 U	200 U	200 U	190 U
Bis(2-chloroethyl)ether	NS	NS	150 U	170 U	160 U	160 U
Bis(2-chloroisopropyl)ether	NS	NS	200 U	220 U	220 U	210 U
Bis(2-ethylhexyl)phthalate	NS	NS	170 U	84 J	380	180 U
Butyl benzyl phthalate	NS	NS	170 U	190 U	180 U	180 U
Carbazole	NS	NS	590	280	190	180 U
Chrysene	1,000	3,900	3,200	1,600	1,600	110 U
Di-n-butylphthalate	NS	NS	63 J	50 J	180 U	180 U
Di-n-octylphthalate	NS	NS	170 U	190 U	180 U	180 U
Dibenzo(a,h)anthracene	330	330	390	180	190	110 U
Dibenzofuran	7,000	59,000	250	170 J	56 J	180 U
Diethyl phthalate	NS	NS	170 U	190 U	180 U	180 U
Dimethyl phthalate	NS	NS	170 U	190 U	180 U	180 U
Fluoranthene	100,000	100,000	6,300	3,400	3,000	25 J
Fluorene	30,000	100,000	350	250	120 J	180 U
Hexachlorobenzene	330	1,200	100 U	110 U	110 U	110 U
Hexachlorobutadiene	NS	NS	170 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	NS	NS	490 U	540 U	520 U	510 U
Hexachloroethane	NS	NS	140 U	150 U	150 U	140 U
Indeno(1,2,3-cd)pyrene	500	500	2,200	880	1,000	140 U
Isophorone	NS	NS	150 U	170 U	160 U	160 U
n-Nitrosodi-n-propylamine	NS	NS	170 U	190 U	180 U	180 U
Naphthalene	12,000	100,000	250	190	110 J	180 U
NDPA/DPA	NS	NS	140 U	150 U	150 U	140 U
Nitrobenzene	NS	NS	150 U	170 U	160 U	160 U
p-Chloro-m-cresol	NS	NS	170 U	190 U	180 U	180 U
Pentachlorophenol	800	6,700	140 U	150 U	150 U	140 U
Phenanthrene	100,000	100,000	4,500	2,900	1,400	110 U
Phenol	330	100,000	170 U	190 U	180 U	180 U
Pyrene	100,000	100,000	5,500	3,000	2,700	24 J

Notes:

New York NYCRR Part 375 Protection of Restricted Residential Use SCO and Unrestricted Use - October 21, 2010

NS - No Standard

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J - analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U - analyte not detected at or above the level indicated

Highlighted text denotes concentrations exceeding Unrestricted Use SCOs

Highlighted text denotes concentrations exceeding Restricted Residential SCOs

Table 3
Soil Sample Analytical Data Summary
RCRA Metals
28-12 41st Avenue, Long Island City, New York

Client Sample ID:	NYSDEC Part 375 Soil Cleanup Objectives Unrestricted Use	NYSDEC Part 375 Soil Cleanup Objectives Restricted Residential Use	SB001 0-2' L2120445-01 4/21/2021	SB002 3-5' L2120445-02 4/21/2021	SB003 0-2' L2120445-03 4/21/2021	SB004 5-7' L2120445-04 4/21/2021
TAL Metals by USEPA method 8270 in mg/kg						
Aluminum	NS	NS	4,340	5,910	3,560	4,340
Antimony	NS	NS	0.423 J	3.24 J	0.609 J	0.413 J
Arsenic	13	16	1.68	11.9	2.21	1.9
Barium	350	400	196	207	99.2	34.3
Beryllium	7.2	72	0.232 J	0.421 J	0.217 J	0.211 J
Cadmium	2.5	4.3	0.531 J	1.99	0.508 J	0.362 J
Calcium	NS	NS	5,340	2,230	8,310	21,400
Chromium	NS	NS	14.1	19.2	10.4	13.1
Cobalt	NS	NS	5.21	10.3	4.28	4.91
Copper	50	270	22.3	297	31.8	14.6
Iron	NS	NS	10,800	24,200	11,800	12,900
Lead	63	400	839	940	632	75.3
Magnesium	NS	NS	3,920	1,460	2,170	3,190
Manganese	1,600	2,000	234	313	292	320
Mercury	0.18	0.81	0.105	1.78	0.241	0.073 U
Nickel	30	310	12.1	18.6	8.82	11.2
Potassium	NS	NS	831	358	435	504
Selenium	3.9	180	1.66 U	1.02 J	1.67 U	1.69 U
Silver	2	180	0.83 U	0.764 J	0.834 U	0.843 U
Sodium	NS	NS	114 J	75.6 J	82 J	209
Thallium	NS	NS	1.66 U	1.72 U	1.67 U	1.69 U
Vanadium	NS	NS	20.9	56.3	16.6	15.4
Zinc	109	10,000	166	484	144	103

Notes:

New York NYCRR Part 375 Protection of Restricted Residential Use SCO and Unrestricted Use - October 21, 2010

NS - No Standard

D - result is from an analysis that required a dilution

J - analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U - analyte not detected at or above the level indicated

Highlighted text denotes concentrations exceeding Unrestricted Use SCOs

Highlighted text denotes concentrations exceeding Restricted Residential SCOs

Table 4
Groundwater Sample Analytical Data Summary
Volatile Organic Compounds
28-12 41st Avenue, Long Island City, New York

Client Sample ID:	NYSDEC Ambient Groundwater Quality Standards	GW001 21-25' L2120445-05 4/21/2021	GW002 21-25' L2120445-06 4/21/2021
Sample Depth			
Laboratory ID:			
Sampling Date:			
Volatile Organic Compounds by USEPA method 8260 in ug/l			
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	2 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U
1,2-Dibromoethane	0.0006	2 U	2 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U
1,2-Dichloroethene, Total	NS	2.5 U	2.5 U
1,2-Dichloropropane	1	1 U	1 U
1,3,5-Trimethylbenzene	5	2.5 U	2.5 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U
1,3-Dichloropropane	5	2.5 U	2.5 U
1,3-Dichloropropene, Total	NS	0.5 U	0.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U
1,4-Dioxane	NS	250 U	250 U
2,2-Dichloropropane	5	2.5 U	2.5 U
2-Butanone	50	5 U	5 U
2-Hexanone	50	5 U	5 U
4-Methyl-2-pentanone	NS	5 U	5 U
Acetone	50	1.5 J	3.4 J
Acrylonitrile	5	5 U	5 U
Benzene	1	0.5 U	0.5 U
Bromobenzene	5	2.5 U	2.5 U
Bromochloromethane	5	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U
Bromoform	50	2 U	2 U
Bromomethane	5	2.5 U	2.5 U
Carbon disulfide	60	5 U	5 U
Carbon tetrachloride	5	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U
Chloromethane	NS	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U
Dibromochloromethane	50	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U
Ethyl ether	NS	2.5 U	2.5 U
Ethylbenzene	5	2.5 U	2.5 U
Hexachlorobutadiene	0.5	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U
Methyl tert butyl ether	10	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U
n-Butylbenzene	5	2.5 U	2.5 U
n-Propylbenzene	5	2.5 U	2.5 U
Naphthalene	10	2.5 U	2.5 U
o-Chlorotoluene	5	2.5 U	2.5 U
o-Xylene	5	2.5 U	2.5 U
p-Chlorotoluene	5	2.5 U	2.5 U
p-Diethylbenzene	NS	2 U	2 U
p-Ethyltoluene	NS	2 U	2 U
p-Isopropyltoluene	5	2.5 U	2.5 U
p/m-Xylene	5	2.5 U	2.5 U
sec-Butylbenzene	5	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U
tert-Butylbenzene	5	2.5 U	2.5 U
Tetrachloroethene	5	0.62	2.5
Toluene	5	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	5	2.5 U	2.5 U
Trichloroethene	5	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U
Vinyl acetate	NS	5 U	5 U
Vinyl chloride	2	1 U	1 U
Xylenes, Total	NS	2.5 U	2.5 U

Notes:

(1) New York NYCRR Part 375 Ambient Groundwater Quality Standards

NS - No Standard

U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.

Highlighted text denotes concentrations exceeding NYSDEC AWQS

Table 5
Groundwater Sample Analytical Data Summary
Semivolatile Organic Compounds
28-12 41st Avenue, Long Island City, New York

Client Sample ID: Sample Depth Laboratory ID: Sampling Date:	NYSDEC Ambient Groundwater Quality Standards	GW001 21-25' L2120445-05 4/21/2021	GW002 21-25' L2120445-06 4/21/2021
Semivolatile Organic Compounds by USEPA method 8270 in ug/l			
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U
1,2,4-Trichlorobenzene	5	5 U	5 U
1,2-Dichlorobenzene	3	2 U	2 U
1,3-Dichlorobenzene	3	2 U	2 U
1,4-Dichlorobenzene	3	2 U	2 U
2,4,5-Trichlorophenol	NS	5 U	5 U
2,4,6-Trichlorophenol	NS	5 U	5 U
2,4-Dichlorophenol	1	5 U	5 U
2,4-Dimethylphenol	50	5 U	5 U
2,4-Dinitrophenol	10	20 U	20 U
2,4-Dinitrotoluene	5	5 U	5 U
2,6-Dinitrotoluene	5	5 U	5 U
2-Chlorophenol	NS	2 U	2 U
2-Methylphenol	NS	5 U	5 U
2-Nitroaniline	5	5 U	5 U
2-Nitrophenol	NS	10 U	10 U
3,3'-Dichlorobenzidine	5	5 U	5 U
3-Methylphenol/4-Methylphenol	NS	5 U	5 U
3-Nitroaniline	5	5 U	5 U
4,6-Dinitro-o-cresol	NS	10 U	10 U
4-Bromophenyl phenyl ether	NS	2 U	2 U
4-Chloroaniline	5	5 U	5 U
4-Chlorophenyl phenyl ether	NS	2 U	2 U
4-Nitroaniline	5	5 U	5 U
4-Nitrophenol	NS	10 U	10 U
Acetophenone	NS	5 U	5 U
Benzoic Acid	NS	50 U	50 U
Benzyl Alcohol	NS	2 U	2 U
Biphenyl	NS	2 U	2 U
Bis(2-chloroethoxy)methane	5	5 U	5 U
Bis(2-chloroethyl)ether	1	2 U	2 U
Bis(2-chloroisopropyl)ether	5	2 U	2 U
Bis(2-ethylhexyl)phthalate	5	1.9 J	2 J
Butyl benzyl phthalate	50	5 U	5 U
Carbazole	NS	2 U	2 U
Di-n-butylphthalate	50	5 U	5 U
Di-n-octylphthalate	50	5 U	5 U
Dibenzofuran	NS	2 U	2 U
Diethyl phthalate	50	5 U	0.48 J
Dimethyl phthalate	50	5 U	5 U
Hexachlorocyclopentadiene	5	20 U	20 U
Isophorone	50	5 U	5 U
n-Nitrosodi-n-propylamine	NS	5 U	5 U
NDPA/DPA	50	2 U	2 U
Nitrobenzene	0.4	2 U	2 U
p-Chloro-m-cresol	NS	2 U	2 U
Phenol	1	5 U	5 U
2-Chloronaphthalene	10	0.2 U	0.2 U
2-Methylnaphthalene	NS	0.05 J	0.04 J
Acenaphthene	20	0.1 U	0.02 J
Acenaphthylene	NS	0.1 U	0.02 J
Anthracene	50	0.1 U	0.05 J
Benzo(a)anthracene	0.002	0.02 J	0.08 J
Benzo(a)pyrene	0	0.1 U	0.06 J
Benzo(b)fluoranthene	0.002	0.1 U	0.08 J
Benzo(ghi)perylene	NS	0.1 U	0.04 J
Benzo(k)fluoranthene	0.002	0.1 U	0.03 J
Chrysene	0.002	0.1 U	0.07 J
Dibenzo(a,h)anthracene	NS	0.1 U	0.01 J
Fluoranthene	50	0.04 J	0.2
Fluorene	50	0.1 U	0.11
Hexachlorobenzene	0.04	0.8 U	0.8 U
Hexachlorobutadiene	0.5	0.5 U	0.5 U
Hexachloroethane	5	0.8 U	0.8 U
Indeno(1,2,3-cd)pyrene	0.002	0.1 U	0.04 J
Naphthalene	10	0.13	0.05 J
Pentachlorophenol	1	0.8 U	0.8 U
Phenanthrene	50	0.05 J	0.4
Pyrene	50	0.03 J	0.2

Notes:

(1) New York NYCRR Part 375 Ambient Groundwater Quality Standards

NS - No Standard

U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.

Highlighted text denotes concentrations exceeding NYSDEC AWQS

Table 6
Groundwater Sample Analytical Data Summary
TAL Metals
28-12 41st Avenue, Long Island City, New York

Client Sample ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Ambient Groundwater Quality Standards	GW001 21-25' L2120445-05 4/21/2021		GW002 21-25' L2120445-06 4/21/2021	
		Total	Dissolved	Total	Dissolved
		Total/Dissolved TAL Metals (mg/l)			
Aluminum	NS	10.3	1.07	8.17	0.00986 J
Antimony	0.003	0.0005 J	0.00078 J	0.008 U	0.00051 J
Arsenic	0.025	0.00627	0.00035 J	0.00405	0.00022 J
Barium	1	1.076	0.02464	2.045	0.0793
Beryllium	0.003	0.00143	0.0005 U	0.00149	0.0005 U
Cadmium	0.005	0.00157	0.0002 U	0.00262	0.0002 U
Calcium	NS	1140	24	2040	98.7
Chromium	0.05	0.06868	0.00361	0.05277	0.001 U
Cobalt	NS	0.1017	0.0011	0.1522	0.00196
Copper	0.2	0.1697	0.00489	0.05881	0.00047 J
Iron	0.3	27	2.29	13.9	0.0466 J
Lead	0.025	0.02751	0.00143	0.02288	0.001 U
Magnesium	35	155	7.62	153	34
Manganese	0.3	13.86	0.05244	17.7	0.2827
Mercury	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	0.2017	0.00339	0.1293	0.00638
Potassium	NS	10.6	2.66	18.2	5.32
Selenium	0.01	0.00738	0.005 U	0.0133	0.00432 J
Silver	0.05	0.0004 U	0.0004 U	0.0008 U	0.0004 U
Sodium	20	6.29	2.95	29.6	23.9
Thallium	0.0005	0.00045 J	0.00037 J	0.00054 J	0.00022 J
Vanadium	NS	0.023	0.00268 J	0.01435	0.005 U
Zinc	2	2.72	0.01715	0.1109	0.01 U

Notes:

(1) New York NYCRR Part 375 Ambient Groundwater Quality Standards

NS - No Standard

U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.

Highlighted text denotes concentrations exceeding NYSDEC AWQS

Table 7
Soil Vapor Sample Analytical Data Summary
Volatile Organic Compounds
28-12 41st Avenue, Long Island City, New York

Client Sample ID: Sample Depth Laboratory ID: Sampling Date:	USEPA VISL	SV001 2" L2120384-01 4/21/2021	SV002 2" L2120384-02 4/21/2021
Volatile Organic Compounds - Concentrations in ug/m ³			
1,1,1-Trichloroethane	174,000	11.1	10.9 U
1,1,2,2-Tetrachloroethane	16.1	5.72 U	13.7 U
1,1,2-Trichloroethane	6.95	4.54 U	10.9 U
1,1-Dichloroethane	585	3.37 U	8.09 U
1,1-Dichloroethene	6,950	3.30 U	7.93 U
1,2,4-Trichlorobenzene	69.5	6.18 U	14.8 U
1,2,4-Trimethylbenzene	2,090	4.10 U	9.83 U
1,2-Dibromoethane	1.56	6.40 U	15.4 U
1,2-Dichlorobenzene	6,950	5.01 U	12.0 U
1,2-Dichloroethane	36	3.37 U	8.09 U
1,2-Dichloropropane	139	3.85 U	9.24 U
1,3,5-Trimethylbenzene	2,090	4.10 U	9.83 U
1,3-Butadiene	31.2	1.84 U	4.42 U
1,3-Dichlorobenzene	NS	5.01 U	12.0 U
1,4-Dichlorobenzene	85.1	5.01 U	12.0 U
1,4-Dioxane	187	3.00 U	7.21 U
2,2,4-Trimethylpentane	NS	3.89 U	9.34 U
2-Butanone	174,000	6.13 U	14.7 U
2-Hexanone	1040	3.41 U	8.20 U
3-Chloropropene	34.8	2.61 U	6.26 U
4-Ethyltoluene	NS	4.10 U	9.83 U
4-Methyl-2-pentanone	104,000	8.52 U	20.5 U
Acetone	1,070,000	34.7	67.0
Benzene	120	2.66 U	6.39 U
Benzyl chloride	19.1	4.31 U	10.4 U
Bromodichloromethane	25.3	5.58 U	13.4 U
Bromoform	851	8.61 U	20.7 U
Bromomethane	174	3.23 U	7.77 U
Carbon disulfide	24,300	2.59 U	6.23 U
Carbon tetrachloride	156	5.24 U	12.6 U
Chlorobenzene	1,740	3.84 U	9.21 U
Chloroethane	348,000	2.20 U	5.28 U
Chloroform	40.7	4.07 U	9.77 U
Chloromethane	3130	1.72 U	4.13 U
cis-1,2-Dichloroethene	NS	4.20	7.93 U
cis-1,3-Dichloropropene	NS	3.78 U	9.08 U
Cyclohexane	209,000	2.87 U	6.88 U
Dibromochloromethane	NS	7.10 U	17.0 U
Dichlorodifluoromethane	3,480	7.91	9.89 U
Ethanol	NS	40.5	94.2 U
Ethyl Acetate	2,430	7.50 U	18.0 U
Ethylbenzene	374	3.62 U	8.86
Freon-113	174,000	6.38 U	15.3 U
Freon-114	NS	5.82 U	14.0 U
Heptane	NS	4.18	179
Hexachlorobutadiene	42.5	8.89 U	21.3 U
Isopropanol	6,950	9.39	13.0
Methyl tert butyl ether	3,600	3.00 U	7.21 U
Methylene chloride	20,900	7.23 U	17.4 U
n-Hexane	24,300	3.70	131
o-Xylene	3,480	3.62 U	22.1
p/m-Xylene	3,480	7.25 U	43.9
Styrene	34,800	3.55 U	8.52 U
Tertiary butyl Alcohol	NS	6.31 U	28.0
Tetrachloroethene (PCE)	1,390	1,710	139
Tetrahydrofuran	69,500	6.13 U	14.7 U
Toluene	174,000	5.73	19.4
trans-1,2-Dichloroethene	NS	3.30 U	7.93 U
trans-1,3-Dichloropropene	NS	3.78 U	9.08 U
Trichloroethene (TCE)	69.5	19.3	10.7 U
Trichlorofluoromethane	NS	4.68 U	11.2 U
Vinyl bromide	62.4	3.64 U	8.74 U
Vinyl chloride	55.9	2.13 U	5.11 U

Notes:

EPA VISL Default Residential Target Sub-Slab & Exterior Soil Gas Concentrations (TCR = 1E-05; THQ = 1) Criteria per VISL Calculator, Updated November 2020 (November 2020 RSLs).

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).

U - Not detected at the reported detection limit for the sample.

Gray highlighted indicates soil vapor concentration in exzceedance of VISL

NS - No Standard



APPENDIX A

Geophysical Report



**Associated
Environmental
Services, Ltd.**

**UTILITY/GEOPHYSICAL
INVESTIGATION REPORT**

**SITE LOCATION:
28-14 41st Avenue
Long Island City, NY**

**PREPARED FOR:
P.W. Grosser
630 Johnson Ave, Suite 7
Bohemia, NY 11716**

**PREPARED BY:
John Schretzmayer
Associated Environmental Services, Ltd
25 Central Ave
Hauppauge, NY 11788**

May 17, 2021

Associated Environmental Services, Ltd (AES) is pleased to provide the results of the geophysical survey conducted at 28-14 41st Avenue, Long Island City, NY.

1.0 INTRODUCTION

On April 21, 2021 Associated Environmental Services, Ltd (AES) personnel performed a limited geophysical investigation and utility markout at 28-14 41st Avenue, Long Island City, NY. All accessible areas throughout the interior of the building and the surrounding area were scanned.

2.0 SCOPE OF WORK

The survey was conducted to locate utilities and subsurface for anomalies for upcoming subsurface work to be conducted at the property.

3.0 METHODOLOGY

Selection of survey equipment is dependent site conditions and project objectives. For this project the technician utilized the following equipment to survey the area of concern:

- Sensors & Software LMX100 ground penetrating radar (GPR)
- Radiodetection RD7000 precision utility locator
- Whites 808 Metal Detector
- Metrotech 810 Cable and Line detector
- Schonstedt Magnetometer
- Fiber Snake

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 1,000 MHz) to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. GPR is a method that is commonly used for environmental, engineering, archeological, and other shallow investigations.

The LMX100 GPR can accept a wide variety of antennas which provide various depths of penetration and levels of resolution. The LMX100 can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions. Signal penetration decreases with increased soil conductivity. Conductive materials attenuate or absorb the GPR signal. As depth increases the return signal becomes weaker. Penetration is the greatest in unsaturated sands and fine gravels. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, of other highly conductive materials significantly reduces GPR depth of penetration. The GPR was configured to transmit to a depth of approximately 18 feet below the subsurface.

The RD7000 precision utility locator uses radio emission to trace the location of metal bearing utilities. This radio emission can be active or passive. Active tracing requires the attachment of a radio transmitter to the utility, passive tracing uses radio emissions that are present on the utility. Underground electrical utilities typically emit radio signals that this device can detect.

The Metrotech 810 is designed to find pipes, cables and the Whites 808/Schonstedt Magnetometer is used to locate other metallic objects such as underground storage tanks and voids (drywells). One surveyor can carry both the transmitter and receiver together, making it ideally suited for exploration type searches of ferrous metal masses. Metal detectors of this type operate by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the receiver, which generates an audible tone equal to the strength of the secondary field.

The fiber snake is used to snake underground pipes and is used in conjunction with the Metrotech 810 Cable and Line detector.

4.0 SURVEY FINDINGS

The GPR survey indicated several anomalies during the GPR survey. Location of the anomalies can be found in the attached figure. No anomalies indicative of a drywell or UST were found during the GPR Survey.

Utility Survey

Sewer, water, electric and gas lines were marked with paint and flags. See figure, photos and site sketch attached. All soil boring locations were cleared for utilities prior to drilling.

5.0 SURVEY LIMITATIONS

Only detectable utilities in the immediate area of 28-14 41st Avenue, Long Island City, NY. were marked.

6.0 WARRANTIES AND DISCLAIMER

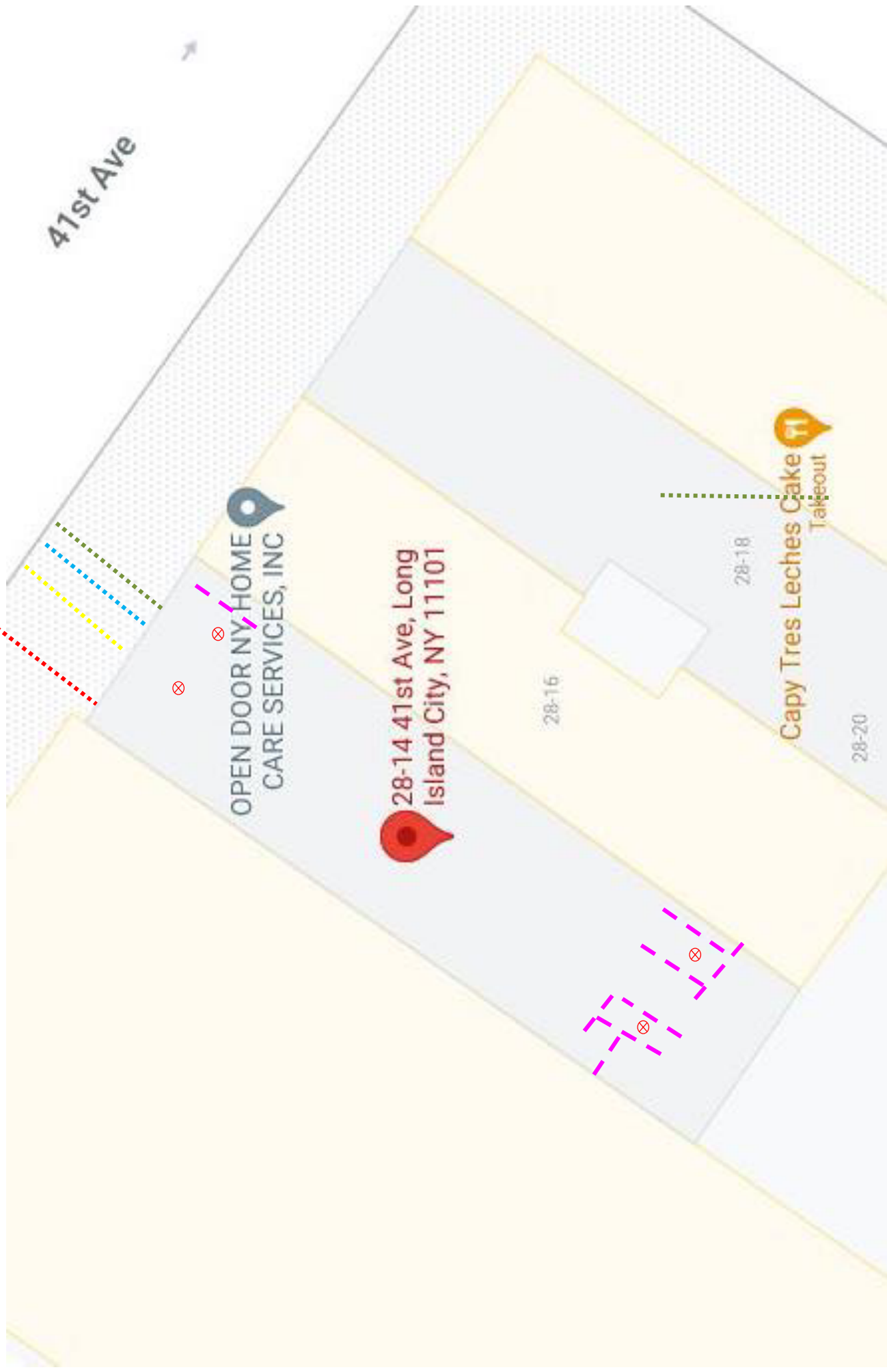
As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity to any anomalies indicated in this report. In addition, the absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically AES's intent that the conclusions stated herein will be intended as guidance.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limit or scope of work, budget and schedule. AES represents that the services were performed in a manner consistent with currently accepted professional practices employed by geophysical/geological consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

This report was prepared pursuant to the contract AES has with the Client. That contractual relationship included an exchange of information about the property that was unique and between AES and its client and serves as the basis upon which this report was prepared. Because of the importance of the understandings between AES and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to AES.

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ATTACHMENTS



Mark Out Locations
28-14 41st Ave
LIC, NY

- LEGEND**
- Electric
 - Boring Location
 - Gas
 - Communication
 - GPR Anomaly Manhole
 - Sewer Service
 - GPR Anomaly

**Associated
Environmental
Services, Ltd.**
25 Central Avenue, Hauppauge NY
Ph 631-234-4280 · Fx 631-234-4297

PHOTODOCUMENTATION
28-14 41st Ave
LIC, NY



Subject Site



Scanning Sidewalk

PHOTODOCUMENTATION

28-14 41st Ave

LIC, NY



Marked Utilities



Clearing boreholes inside



**Associated
Environmental
Services, Ltd.**

PHOTODOCUMENTATION

28-14 41st Ave

LIC, NY



Clearing boreholes/Anomalies



Clearing boreholes/Anomalies



**Associated
Environmental
Services, Ltd.**



APPENDIX B

Soil Boring Logs

PROJECT #:		ICF2102			
SITE ADDRESS:		28-12 41st Avenue Long Island City, NY			
BORING ID:		SB001		BORING DEPTH (FT):	CORE LENGTH (FT):
GRID:		N/A		BORING DIAMETER (IN):	WELL DIAMETER (IN):
DRILLING CONTRACTOR:		Associated Environmental		DATE STARTED:	DATE FINISHED:
DRILLING METHOD:		Direct Push		TIME STARTED:	TIME FINISHED:
DRILLING EQUIPMENT:		Geoprobe 6610		LATITUDE:	LONGITUDE:
SAMPLING METHOD:		Macrocore		PROJECT MANAGER:	LOGGED BY:
				Ryan Morley	Christopher Autz

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				Concrete	0	0	
1				(Historic Fill) Black, medium Sand, trace Gravel; possible staining, dry and no odor	0	1	
2			4			2	
3						3	
4				(Historic Fill) Brown, medium Sand, trace Gravel; dry and no odor	0	4	
5						5	
6						6	
7			3			7	
8						8	
9						9	
10						10	
11			3			11	
12				(SP) Brown, medium Sand, trace Fines, dry and no odor	0	12	
13						13	
14						14	
15						15	
16			3			16	
17						17	
18						18	
19						19	
20				(SM) Brown, silty Sand, low Plasticity; dry and no odor	0	20	
21			3			21	
22				(SM) Brown, silty Sand, low Plasticity; wet and no odor	0	22	
23						23	
24						24	
25						25	
26						26	

P.W. Grosser Consulting	End of Boring Depth (feet): 25	Water Table Symbol: ▼	Page 1 of 1
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PROJECT #:		ICF2102			
SITE ADDRESS:		28-12 41st Avenue Long Island City, NY			
BORING ID:		SB002		BORING DEPTH (FT):	CORE LENGTH (FT):
GRID:		N/A		BORING DIAMETER (IN):	WELL DIAMETER (IN):
DRILLING CONTRACTOR:		Associated Environmental		DATE STARTED:	DATE FINISHED:
DRILLING METHOD:		Direct Push		TIME STARTED:	TIME FINISHED:
DRILLING EQUIPMENT:		Geoprobe 6610		LATITUDE:	LONGITUDE:
SAMPLING METHOD:		Macrocore		PROJECT MANAGER:	LOGGED BY:
				Ryan Morley	Christopher Autz

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				Concrete	0	0	
1						1	
2			4	(Historic Fill) Brown, medium Sand, trace Gravel; dry and no odor	0	2	
3				(Historic Fill) Black, medium Sand, trace Gravel, possible staining, dry and no odor	0	3	
4						4	
5				(Historic Fill) Brown, medium Sand, trace Gravel; dry and no odor	0	5	
6						6	
7			4			7	
8						8	
9						9	
10						10	
11				(SP) Brown, medium Sand, trace Fines, dry and no odor	0	11	
12			3			12	
13						13	
14						14	
15						15	
16			3	(SM) Brown, silty Sand, low Plasticity; dry and no odor	0	16	
17						17	
18						18	
19						19	
20						20	
21						21	
22			3	(SM) Brown, silty Sand, low Plasticity; wet and no odor	0	22	
23						23	
24						24	
25						25	
26						26	

P.W. Grosser Consulting	End of Boring Depth (feet): 25	Water Table Symbol: ▼	Page 1 of 1
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PROJECT #:		ICF2102			
SITE ADDRESS:		28-12 41st Avenue Long Island City, NY			
BORING ID:		SB003		BORING DEPTH (FT):	CORE LENGTH (FT):
GRID:		N/A		BORING DIAMETER (IN):	WELL DIAMETER (IN):
DRILLING CONTRACTOR:		Associated Environmental		DATE STARTED:	DATE FINISHED:
DRILLING METHOD:		Direct Push		TIME STARTED:	TIME FINISHED:
DRILLING EQUIPMENT:		Geoprobe 6610		LATITUDE:	LONGITUDE:
SAMPLING METHOD:		Macrocore		PROJECT MANAGER:	LOGGED BY:
				Ryan Morley	Christopher Autz

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				Concrete	0	0	
1						1	
2			3	(Historic Fill) Brown, medium Sand, trace Gravel; dry and no odor	0	2	
3						3	
4						4	
5				(Historic Fill) Brick, fabric.	0	5	
6						6	
7			3			7	
8						8	
9						9	
10						10	
11			4	(SP) Brown, medium Sand, trace Fines, dry and no odor	0	11	
12						12	
13						13	
14						14	
15						15	
16			3	(SM) Brown, silty Sand, low Plasticity; dry and no odor	0	16	
17						17	
18						18	
19						19	
20						20	
21						21	
22			3	(SM) Brown, silty Sand, low Plasticity; wet and no odor	0	22	
23						23	
24						24	
25						25	
26						26	

P.W. Grosser Consulting	End of Boring Depth (feet): 25	Water Table Symbol: ▼	Page 1 of 1
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PROJECT #:		ICF2102					
SITE ADDRESS:		28-12 41st Avenue Long Island City, NY					
BORING ID:		SB004		BORING DEPTH (FT):		CORE LENGTH (FT):	
				25		5	
GRID:		N/A		BORING DIAMETER (IN):		WELL DIAMETER (IN):	
				2		N/A	
DRILLING CONTRACTOR:		Associated Environmental		DATE STARTED:		DATE FINISHED:	
				04/21/2021		04/21/2021	
DRILLING METHOD:		Direct Push		TIME STARTED:		TIME FINISHED:	
				11:30		11:45	
DRILLING EQUIPMENT:		Geoprobe 6610		LATITUDE:		LONGITUDE:	
				N/A		N/A	
SAMPLING METHOD:		Macrocore		PROJECT MANAGER:		LOGGED BY:	
				Ryan Morley		Christopher Autz	

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				Concrete	0	0	
1						1	
2			2	(Historic Fill) Brown, medium Sand, trace Gravel; dry and no odor	0	2	
3						3	
4						4	
5						5	
6				(Historic Fill) Black, medium Sand, trace Gravel, possible staining, dry and no odor	0	6	
7						7	
8			3			8	
9						9	
10						10	
11						11	
12			3			12	
13						13	
14				(SM) Brown, silty Sand, low Plasticity; dry and no odor	0	14	
15						15	
16						16	
17			4			17	
18						18	
19						19	
20						20	
21						21	
22			3			22	
23				(SM) Brown, silty Sand, low Plasticity; wet and no odor	0	23	
24						24	
25						25	
26						26	

P.W. Grosser Consulting	End of Boring Depth (feet): 25	Water Table Symbol: ▼	Page 1 of 1
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USCS SOIL CLASSIFICATION GUIDE

MAJOR DIVISIONS			LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS (MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE)	GRAVEL AND GRAVELLY SOILS (MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE)	CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
			GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS (MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE)	CLEAN SAND (LITTLE OR NO FINES)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SM	SILTY SANDS, SAND-SILT MIXTURES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS (MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE)	SILTS AND CLAYS (LIQUID LIMITS LESS THAN 50)		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (LIQUID LIMITS GREATER THAN 50)		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
			HIGHLY ORGANIC SOILS	



RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

For Sands, Gravels:

Non-Cohesive Soils	N Value (Blows/ft)
Very Loose	0 – 4
Loose	4 – 10
Medium Dense	10 – 30
Dense	30 – 50
Very Dense	50+

For Clays, Silts, Organics:

Cohesive Soils	N Value (Blows/ft)
Very Soft	0 – 2
Soft	2 – 4
Medium (Firm)	4 – 8
Stiff	8 – 15
Very Stiff	15 – 30
Hard	30+

DEFINITIONS OF IDENTIFICATION TERMS FOR GRANULAR SOILS

Principal Component (All Capitalized)

- GRAVEL More than 50% of the sample by weight is Gravel
- SAND More than 50% of the sample by weight is Sand
- SILT More than 50% of the sample by weight is Silt

Minor Component (Proper Case)

- Gravel Less than 50% of the sample by weight is Gravel
- Sand Less than 50% of the sample by weight is Sand
- Silt Less than 50% of the sample by weight is Silt

Proportion terms, for Minor Components

- and Component ranges from 35% to 50% of the sample by weight
- Some Component ranges from 20% to 35% of the sample by weight
- Little Component ranges from 10% to 20% of the sample by weight
- trace Component ranges from 0% to 10% of the sample by weight

Size of Soil Components

- Gravel
 - Coarse gravel ranges from 3 inches to 1 inch
 - Medium gravel ranges from 1 inch to 3 / 8 inch
 - Fine gravel ranges from 3 / 8 inch to No. 10 sieve
- Sand
 - Coarse sand ranges from No. 10 sieve to No. 30 sieve
 - Medium sand ranges from No. 30 sieve to No. 60 sieve
 - Fine sand ranges from No. 60 sieve to No. 200 sieve
- Silt
 - Material which passes the No. 200 sieve
- Clay
 - Material which passes the No. 200 sieve
 - Exhibits varying degrees of plasticity

Laboratory Test Abbreviation

Laboratory Tests	Abbreviation
Atterberg	ATG
Moisture Content	MC
Sieve Analysis	SA

Gradation Designations

- Coarse to fine (c-f) All fractions greater than 10% of the component
- Coarse to medium (c-m) Less than 10% of the component is fine
- Medium to fine (m-f) Less than 10% of the component is coarse
- Coarse (c) Less than 10% of the component is medium and fine
- Medium (m) Less than 10% of the component is coarse and fine
- Fine (f) Less than 10% of the component is coarse and medium

CLIENT DRIVEN SOLUTIONS

PHONE: 631.589.6353 630 JOHNSON AVENUE, STE 7
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APPENDIX C

Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L2120384
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Ryan Morley
Phone:	(631) 589-6353
Project Name:	ICF2102
Project Number:	ICF2102
Report Date:	04/27/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120384
Report Date: 04/27/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2120384-01	SV001	SOIL_VAPOR	28-12 41ST AVE., LI CITY, NY	04/21/21 10:42	04/21/21
L2120384-02	SV002	SOIL_VAPOR	28-12 41ST AVE., LI CITY, NY	04/21/21 10:39	04/21/21

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120384
Report Date: 04/27/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21**Case Narrative (continued)**

Volatile Organics in Air

Canisters were released from the laboratory on April 20, 2021. The canister certification results are provided as an addendum.

L2120384-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2120384-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The WG1490885-3 LCS recoveries for propylene (132%), and 3-chloropropene (136%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/27/21

AIR

Project Name: ICF2102**Project Number:** ICF2102**Lab Number:** L2120384**Report Date:** 04/27/21**SAMPLE RESULTS**

Lab ID: L2120384-01 D
 Client ID: SV001
 Sample Location: 28-12 41ST AVE., LI CITY, NY

Date Collected: 04/21/21 10:42
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/27/21 03:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.60	0.833	--	7.91	4.12	--		4.167
Chloromethane	ND	0.833	--	ND	1.72	--		4.167
Freon-114	ND	0.833	--	ND	5.82	--		4.167
Vinyl chloride	ND	0.833	--	ND	2.13	--		4.167
1,3-Butadiene	ND	0.833	--	ND	1.84	--		4.167
Bromomethane	ND	0.833	--	ND	3.23	--		4.167
Chloroethane	ND	0.833	--	ND	2.20	--		4.167
Ethanol	21.5	20.8	--	40.5	39.2	--		4.167
Vinyl bromide	ND	0.833	--	ND	3.64	--		4.167
Acetone	14.6	4.17	--	34.7	9.91	--		4.167
Trichlorofluoromethane	ND	0.833	--	ND	4.68	--		4.167
Isopropanol	3.82	2.08	--	9.39	5.11	--		4.167
1,1-Dichloroethene	ND	0.833	--	ND	3.30	--		4.167
Tertiary butyl Alcohol	ND	2.08	--	ND	6.31	--		4.167
Methylene chloride	ND	2.08	--	ND	7.23	--		4.167
3-Chloropropene	ND	0.833	--	ND	2.61	--		4.167
Carbon disulfide	ND	0.833	--	ND	2.59	--		4.167
Freon-113	ND	0.833	--	ND	6.38	--		4.167
trans-1,2-Dichloroethene	ND	0.833	--	ND	3.30	--		4.167
1,1-Dichloroethane	ND	0.833	--	ND	3.37	--		4.167
Methyl tert butyl ether	ND	0.833	--	ND	3.00	--		4.167
2-Butanone	ND	2.08	--	ND	6.13	--		4.167
cis-1,2-Dichloroethene	1.06	0.833	--	4.20	3.30	--		4.167



Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21**SAMPLE RESULTS**

Lab ID: L2120384-01 D
 Client ID: SV001
 Sample Location: 28-12 41ST AVE., LI CITY, NY

Date Collected: 04/21/21 10:42
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.08	--	ND	7.50	--		4.167
Chloroform	ND	0.833	--	ND	4.07	--		4.167
Tetrahydrofuran	ND	2.08	--	ND	6.13	--		4.167
1,2-Dichloroethane	ND	0.833	--	ND	3.37	--		4.167
n-Hexane	1.05	0.833	--	3.70	2.94	--		4.167
1,1,1-Trichloroethane	2.04	0.833	--	11.1	4.54	--		4.167
Benzene	ND	0.833	--	ND	2.66	--		4.167
Carbon tetrachloride	ND	0.833	--	ND	5.24	--		4.167
Cyclohexane	ND	0.833	--	ND	2.87	--		4.167
1,2-Dichloropropane	ND	0.833	--	ND	3.85	--		4.167
Bromodichloromethane	ND	0.833	--	ND	5.58	--		4.167
1,4-Dioxane	ND	0.833	--	ND	3.00	--		4.167
Trichloroethene	3.59	0.833	--	19.3	4.48	--		4.167
2,2,4-Trimethylpentane	ND	0.833	--	ND	3.89	--		4.167
Heptane	1.02	0.833	--	4.18	3.41	--		4.167
cis-1,3-Dichloropropene	ND	0.833	--	ND	3.78	--		4.167
4-Methyl-2-pentanone	ND	2.08	--	ND	8.52	--		4.167
trans-1,3-Dichloropropene	ND	0.833	--	ND	3.78	--		4.167
1,1,2-Trichloroethane	ND	0.833	--	ND	4.54	--		4.167
Toluene	1.52	0.833	--	5.73	3.14	--		4.167
2-Hexanone	ND	0.833	--	ND	3.41	--		4.167
Dibromochloromethane	ND	0.833	--	ND	7.10	--		4.167
1,2-Dibromoethane	ND	0.833	--	ND	6.40	--		4.167
Tetrachloroethene	252	0.833	--	1710	5.65	--		4.167
Chlorobenzene	ND	0.833	--	ND	3.84	--		4.167
Ethylbenzene	ND	0.833	--	ND	3.62	--		4.167



Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21**SAMPLE RESULTS**

Lab ID: L2120384-01 D
 Client ID: SV001
 Sample Location: 28-12 41ST AVE., LI CITY, NY

Date Collected: 04/21/21 10:42
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	1.67	--	ND	7.25	--		4.167
Bromoform	ND	0.833	--	ND	8.61	--		4.167
Styrene	ND	0.833	--	ND	3.55	--		4.167
1,1,2,2-Tetrachloroethane	ND	0.833	--	ND	5.72	--		4.167
o-Xylene	ND	0.833	--	ND	3.62	--		4.167
4-Ethyltoluene	ND	0.833	--	ND	4.10	--		4.167
1,3,5-Trimethylbenzene	ND	0.833	--	ND	4.10	--		4.167
1,2,4-Trimethylbenzene	ND	0.833	--	ND	4.10	--		4.167
Benzyl chloride	ND	0.833	--	ND	4.31	--		4.167
1,3-Dichlorobenzene	ND	0.833	--	ND	5.01	--		4.167
1,4-Dichlorobenzene	ND	0.833	--	ND	5.01	--		4.167
1,2-Dichlorobenzene	ND	0.833	--	ND	5.01	--		4.167
1,2,4-Trichlorobenzene	ND	0.833	--	ND	6.18	--		4.167
Hexachlorobutadiene	ND	0.833	--	ND	8.89	--		4.167

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	99		60-140



Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21**SAMPLE RESULTS**

Lab ID: L2120384-02 D
 Client ID: SV002
 Sample Location: 28-12 41ST AVE., LI CITY, NY

Date Collected: 04/21/21 10:39
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/27/21 03:46
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	28.2	10.0	--	67.0	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	5.27	5.00	--	13.0	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	9.23	5.00	--	28.0	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10



Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21**SAMPLE RESULTS**

Lab ID: L2120384-02 D
 Client ID: SV002
 Sample Location: 28-12 41ST AVE., LI CITY, NY

Date Collected: 04/21/21 10:39
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	37.2	2.00	--	131	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	43.6	2.00	--	179	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	5.15	2.00	--	19.4	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	20.5	2.00	--	139	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	2.04	2.00	--	8.86	8.69	--		10



Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21**SAMPLE RESULTS**

Lab ID: L2120384-02 D
 Client ID: SV002
 Sample Location: 28-12 41ST AVE., LI CITY, NY

Date Collected: 04/21/21 10:39
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	10.1	4.00	--	43.9	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	5.08	2.00	--	22.1	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	117		60-140



Project Name: ICF2102

Lab Number: L2120384

Project Number: ICF2102

Report Date: 04/27/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/26/21 14:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1490885-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: ICF2102

Lab Number: L2120384

Project Number: ICF2102

Report Date: 04/27/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/26/21 14:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1490885-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: ICF2102

Lab Number: L2120384

Project Number: ICF2102

Report Date: 04/27/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/26/21 14:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1490885-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120384
Report Date: 04/27/21

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			%Recovery			%Recovery				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1490885-3														
Dichlorodifluoromethane	89			-				70-130	-					
Chloromethane	118			-				70-130	-					
Freon-114	99			-				70-130	-					
Vinyl chloride	106			-				70-130	-					
1,3-Butadiene	110			-				70-130	-					
Bromomethane	108			-				70-130	-					
Chloroethane	108			-				70-130	-					
Ethanol	97			-				40-160	-					
Vinyl bromide	110			-				70-130	-					
Acetone	86			-				40-160	-					
Trichlorofluoromethane	102			-				70-130	-					
Isopropanol	97			-				40-160	-					
1,1-Dichloroethene	104			-				70-130	-					
Tertiary butyl Alcohol	90			-				70-130	-					
Methylene chloride	126			-				70-130	-					
3-Chloropropene	136		Q	-				70-130	-					
Carbon disulfide	111			-				70-130	-					
Freon-113	118			-				70-130	-					
trans-1,2-Dichloroethene	100			-				70-130	-					
1,1-Dichloroethane	103			-				70-130	-					
Methyl tert butyl ether	92			-				70-130	-					
2-Butanone	113			-				70-130	-					
cis-1,2-Dichloroethene	104			-				70-130	-					

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120384
Report Date: 04/27/21

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			%Recovery			Limits	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1490885-3														
Ethyl Acetate	113			-			70-130		-					
Chloroform	96			-			70-130		-					
Tetrahydrofuran	113			-			70-130		-					
1,2-Dichloroethane	99			-			70-130		-					
n-Hexane	107			-			70-130		-					
1,1,1-Trichloroethane	99			-			70-130		-					
Benzene	95			-			70-130		-					
Carbon tetrachloride	100			-			70-130		-					
Cyclohexane	105			-			70-130		-					
1,2-Dichloropropane	114			-			70-130		-					
Bromodichloromethane	99			-			70-130		-					
1,4-Dioxane	105			-			70-130		-					
Trichloroethene	103			-			70-130		-					
2,2,4-Trimethylpentane	109			-			70-130		-					
Heptane	122			-			70-130		-					
cis-1,3-Dichloropropene	103			-			70-130		-					
4-Methyl-2-pentanone	127			-			70-130		-					
trans-1,3-Dichloropropene	87			-			70-130		-					
1,1,2-Trichloroethane	110			-			70-130		-					
Toluene	109			-			70-130		-					
2-Hexanone	129			-			70-130		-					
Dibromochloromethane	116			-			70-130		-					
1,2-Dibromoethane	106			-			70-130		-					



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120384
Report Date: 04/27/21

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			%Recovery			%Recovery				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1490885-3														
Tetrachloroethene	103			-			70-130		-					
Chlorobenzene	102			-			70-130		-					
Ethylbenzene	107			-			70-130		-					
p/m-Xylene	112			-			70-130		-					
Bromoform	118			-			70-130		-					
Styrene	105			-			70-130		-					
1,1,2,2-Tetrachloroethane	118			-			70-130		-					
o-Xylene	116			-			70-130		-					
4-Ethyltoluene	106			-			70-130		-					
1,3,5-Trimethylbenzene	105			-			70-130		-					
1,2,4-Trimethylbenzene	115			-			70-130		-					
Benzyl chloride	132		Q	-			70-130		-					
1,3-Dichlorobenzene	119			-			70-130		-					
1,4-Dichlorobenzene	115			-			70-130		-					
1,2-Dichlorobenzene	116			-			70-130		-					
1,2,4-Trichlorobenzene	125			-			70-130		-					
Hexachlorobutadiene	114			-			70-130		-					

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2120384-01	SV001	01713	Flow 3	04/20/21	349426		-	-	-	Pass	18.0	17.4	3
L2120384-01	SV001	2825	2.7L Can	04/20/21	349426	L2119733-01	Pass	-29.1	-4.2	-	-	-	-
L2120384-02	SV002	02094	Flow 3	04/20/21	349426		-	-	-	Pass	18.0	16.6	8
L2120384-02	SV002	198	2.7L Can	04/20/21	349426	L2119733-01	Pass	-29.1	-4.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2119733
Report Date: 04/27/21

Air Canister Certification Results

Lab ID: L2119733-01
Client ID: CAN 415 SHELF 18
Sample Location:

Date Collected: 04/16/21 16:00
Date Received: 04/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/18/21 16:26
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2119733
Report Date: 04/27/21

Air Canister Certification Results

Lab ID: L2119733-01
Client ID: CAN 415 SHELF 18
Sample Location:

Date Collected: 04/16/21 16:00
Date Received: 04/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2119733
Report Date: 04/27/21

Air Canister Certification Results

Lab ID: L2119733-01
Client ID: CAN 415 SHELF 18
Sample Location:

Date Collected: 04/16/21 16:00
Date Received: 04/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2119733
Report Date: 04/27/21

Air Canister Certification Results

Lab ID: L2119733-01
Client ID: CAN 415 SHELF 18
Sample Location:

Date Collected: 04/16/21 16:00
Date Received: 04/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2119733**Project Number:** CANISTER QC BAT**Report Date:** 04/27/21**Air Canister Certification Results**

Lab ID: L2119733-01

Date Collected: 04/16/21 16:00

Client ID: CAN 415 SHELF 18

Date Received: 04/17/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2119733
Report Date: 04/27/21

Air Canister Certification Results

Lab ID: L2119733-01
Client ID: CAN 415 SHELF 18
Sample Location:

Date Collected: 04/16/21 16:00
Date Received: 04/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/18/21 16:26
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2119733
Report Date: 04/27/21

Air Canister Certification Results

Lab ID: L2119733-01
Client ID: CAN 415 SHELF 18
Sample Location:

Date Collected: 04/16/21 16:00
Date Received: 04/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2119733**Project Number:** CANISTER QC BAT**Report Date:** 04/27/21**Air Canister Certification Results**

Lab ID: L2119733-01

Date Collected: 04/16/21 16:00

Client ID: CAN 415 SHELF 18

Date Received: 04/17/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	89		60-140



Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
Cooler N/A
Custody Seal Absent

Container Information			Initial			Final			Temp			Pres			Seal			Frozen			Analysis(*)
Container ID	Container Type		Cooler	pH	pH	pH	deg	C	deg	C	deg	C	deg	C	deg	C	Date/Time				
L2120384-01A	Canister - 2.7 Liter		N/A	NA	NA	NA							Y				Absent			TO15-LL(30)	
L2120384-02A	Canister - 2.7 Liter		N/A	NA	NA	NA							Y				Absent			TO15-LL(30)	

*Values in parentheses indicate holding time in days



Project Name: ICF2102

Lab Number: L2120384

Project Number: ICF2102

Report Date: 04/27/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120384
Report Date: 04/27/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: ICF2102**Lab Number:** L2120384**Project Number:** ICF2102**Report Date:** 04/27/21

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

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Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B**The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L2120445
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Ryan Morley
Phone:	(631) 589-6353
Project Name:	ICF2102
Project Number:	ICF2102
Report Date:	05/05/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2120445-01	SB001_0-2	SOIL	28-12 41ST AVE, LONG ISLAND CITY, NY	04/21/21 09:10	04/21/21
L2120445-02	SB002_3-5	SOIL	28-12 41ST AVE, LONG ISLAND CITY, NY	04/21/21 10:20	04/21/21
L2120445-03	SB003_0-2	SOIL	28-12 41ST AVE, LONG ISLAND CITY, NY	04/21/21 10:45	04/21/21
L2120445-04	SB004_5-7	SOIL	28-12 41ST AVE, LONG ISLAND CITY, NY	04/21/21 11:50	04/21/21
L2120445-05	GW001	WATER	28-12 41ST AVE, LONG ISLAND CITY, NY	04/21/21 10:10	04/21/21
L2120445-06	GW002	WATER	28-12 41ST AVE, LONG ISLAND CITY, NY	04/21/21 11:15	04/21/21

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2120445-06: The sample was received above the appropriate pH for the Total Metals analysis. The laboratory added additional HNO₃ to a pH <2.

Volatile Organics

L2120445-01: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

L2120445-06 was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

Semivolatile Organics by SIM

L2120445-06: The surrogate recoveries were outside the acceptance criteria for 2-fluorobiphenyl (131%), 2,4,6-tribromophenol (123%), and 4-terphenyl-d14 (152%); however, the criteria was achieved upon re-extraction outside of holding time. The results of both extractions are reported.

Total Metals

L2120445-01 through -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

L2120445-06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the prep dilution required by the sample matrix.

The WG1491407-1 Method Blank, associated with L2120445-01 through -04, has a concentration above the

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Case Narrative (continued)

reporting limit for copper. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

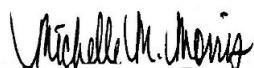
Dissolved Metals

The WG1492818-1 Method Blank, associated with L2120445-05, has a concentration above the reporting limit for aluminum. Since the associated sample concentration is greater than 10x the blank concentration for this analyte, no corrective action is required.

The WG1492818-1 Method Blank, associated with L2120445-05 and -06, has a concentration above the reporting limit for sodium. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 05/05/21

ORGANICS

VOLATILES

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-01
 Client ID: SB001_0-2
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 09:10
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/21 11:20
 Analyst: MKS
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	270	120	1
1,1-Dichloroethane	ND		ug/kg	54	7.8	1
Chloroform	ND		ug/kg	81	7.6	1
Carbon tetrachloride	ND		ug/kg	54	12.	1
1,2-Dichloropropane	ND		ug/kg	54	6.8	1
Dibromochloromethane	ND		ug/kg	54	7.6	1
1,1,2-Trichloroethane	ND		ug/kg	54	14.	1
Tetrachloroethene	930		ug/kg	27	10.	1
Chlorobenzene	ND		ug/kg	27	6.9	1
Trichlorofluoromethane	ND		ug/kg	220	38.	1
1,2-Dichloroethane	ND		ug/kg	54	14.	1
1,1,1-Trichloroethane	27		ug/kg	27	9.0	1
Bromodichloromethane	ND		ug/kg	27	5.9	1
trans-1,3-Dichloropropene	ND		ug/kg	54	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	27	8.5	1
1,3-Dichloropropene, Total	ND		ug/kg	27	8.5	1
1,1-Dichloropropene	ND		ug/kg	27	8.6	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	9.0	1
Benzene	ND		ug/kg	27	9.0	1
Toluene	ND		ug/kg	54	29.	1
Ethylbenzene	ND		ug/kg	54	7.6	1
Chloromethane	ND		ug/kg	220	50.	1
Bromomethane	ND		ug/kg	110	31.	1
Vinyl chloride	ND		ug/kg	54	18.	1
Chloroethane	ND		ug/kg	110	24.	1
1,1-Dichloroethene	ND		ug/kg	54	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	81	7.4	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Date Collected: 04/21/21 09:10

Client ID: SB001_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	27	7.4	1
1,2-Dichlorobenzene	ND		ug/kg	110	7.8	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.0	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.2	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	30.	1
o-Xylene	ND		ug/kg	54	16.	1
Xylenes, Total	ND		ug/kg	54	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	54	9.4	1
1,2-Dichloroethene, Total	ND		ug/kg	54	7.4	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	ND		ug/kg	54	10.	1
Dichlorodifluoromethane	ND		ug/kg	540	49.	1
Acetone	ND		ug/kg	540	260	1
Carbon disulfide	ND		ug/kg	540	240	1
2-Butanone	ND		ug/kg	540	120	1
Vinyl acetate	ND		ug/kg	540	120	1
4-Methyl-2-pentanone	ND		ug/kg	540	69.	1
1,2,3-Trichloropropane	ND		ug/kg	110	6.9	1
2-Hexanone	ND		ug/kg	540	64.	1
Bromochloromethane	ND		ug/kg	110	11.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	54	15.	1
1,3-Dichloropropane	ND		ug/kg	110	9.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	7.1	1
Bromobenzene	ND		ug/kg	110	7.8	1
n-Butylbenzene	ND		ug/kg	54	9.0	1
sec-Butylbenzene	ND		ug/kg	54	7.9	1
tert-Butylbenzene	ND		ug/kg	110	6.4	1
o-Chlorotoluene	ND		ug/kg	110	10.	1
p-Chlorotoluene	ND		ug/kg	110	5.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	54.	1
Hexachlorobutadiene	ND		ug/kg	220	9.1	1
Isopropylbenzene	ND		ug/kg	54	5.9	1
p-Isopropyltoluene	ND		ug/kg	54	5.9	1
Naphthalene	550		ug/kg	220	35.	1
Acrylonitrile	ND		ug/kg	220	62.	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Date Collected: 04/21/21 09:10

Client ID: SB001_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	54	9.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	14	J	ug/kg	110	10.	1
1,2,4-Trimethylbenzene	28	J	ug/kg	110	18.	1
1,4-Dioxane	ND		ug/kg	4300	1900	1
p-Diethylbenzene	21	J	ug/kg	110	9.6	1
p-Ethyltoluene	ND		ug/kg	110	21.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	110	10.	1
Ethyl ether	ND		ug/kg	110	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	270	77.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01
 Client ID: SB001_0-2
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 09:10
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/03/21 10:06
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	17		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Date Collected: 04/21/21 09:10

Client ID: SB001_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	ND		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Date Collected: 04/21/21 09:10

Client ID: SB001_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-02
 Client ID: SB002_3-5
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:20
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/21 13:55
 Analyst: MKS
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	77		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-02

Date Collected: 04/21/21 10:20

Client ID: SB002_3-5

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.64		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-02

Date Collected: 04/21/21 10:20

Client ID: SB002_3-5

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-03
 Client ID: SB003_0-2
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:45
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/03/21 09:39
 Analyst: MV
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-03
 Client ID: SB003_0-2
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:45
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
Xylenes, Total	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-03

Date Collected: 04/21/21 10:45

Client ID: SB003_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-04
 Client ID: SB004_5-7
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 11:50
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/21 14:21
 Analyst: MKS
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	0.78		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-04

Date Collected: 04/21/21 11:50

Client ID: SB004_5-7

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.5	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
Naphthalene	ND		ug/kg	5.4	0.87	1
Acrylonitrile	ND		ug/kg	5.4	1.5	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-04

Date Collected: 04/21/21 11:50

Client ID: SB004_5-7

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-05
 Client ID: GW001
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:10
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/29/21 15:00
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.62		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-05

Date Collected: 04/21/21 10:10

Client ID: GW001

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-05

Date Collected: 04/21/21 10:10

Client ID: GW001

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	92		70-130

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06
 Client ID: GW002
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 11:15
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/29/21 15:24
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	2.5		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06

Date Collected: 04/21/21 11:15

Client ID: GW002

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.4	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06

Date Collected: 04/21/21 11:15

Client ID: GW002

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	92		70-130

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/21 09:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,04 Batch: WG1492294-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/21 09:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,04 Batch: WG1492294-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/21 09:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,04 Batch: WG1492294-12					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/21 09:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1492937-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/21 09:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1492937-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/21 09:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1492937-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/29/21 11:54
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1493050-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/29/21 11:54
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1493050-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/29/21 11:54
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1493050-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/03/21 07:02
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03 Batch: WG1493711-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/03/21 07:02
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03 Batch: WG1493711-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/03/21 07:02
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03 Batch: WG1493711-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,04 Batch: WG14922294-10 WG14922294-11								
Methylene chloride	92		91		70-130	1		30
1,1-Dichloroethane	91		90		70-130	1		30
Chloroform	105		104		70-130	1		30
Carbon tetrachloride	111		110		70-130	1		30
1,2-Dichloropropane	89		88		70-130	1		30
Dibromochloromethane	96		93		70-130	3		30
1,1,2-Trichloroethane	92		90		70-130	2		30
Tetrachloroethene	100		95		70-130	5		30
Chlorobenzene	94		91		70-130	3		30
Trichlorofluoromethane	102		98		70-139	4		30
1,2-Dichloroethane	98		99		70-130	1		30
1,1,1-Trichloroethane	111		109		70-130	2		30
Bromodichloromethane	112		110		70-130	2		30
trans-1,3-Dichloropropene	89		87		70-130	2		30
cis-1,3-Dichloropropene	92		90		70-130	2		30
1,1-Dichloropropene	101		99		70-130	2		30
Bromoform	93		93		70-130	0		30
1,1,2,2-Tetrachloroethane	89		87		70-130	2		30
Benzene	100		98		70-130	2		30
Toluene	92		89		70-130	3		30
Ethylbenzene	94		90		70-130	4		30
Chloromethane	74		71		52-130	4		30
Bromomethane	101		98		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,04 Batch: WG14922294-10 WG14922294-11								
Vinyl chloride	90		80		67-130		12	30
Chloroethane	95		90		50-151		5	30
1,1-Dichloroethene	106		104		65-135		2	30
trans-1,2-Dichloroethene	106		103		70-130		3	30
Trichloroethene	105		103		70-130		2	30
1,2-Dichlorobenzene	93		93		70-130		0	30
1,3-Dichlorobenzene	95		93		70-130		2	30
1,4-Dichlorobenzene	94		93		70-130		1	30
Methyl tert butyl ether	103		101		66-130		2	30
p/m-Xylene	96		94		70-130		2	30
o-Xylene	95		94		70-130		1	30
cis-1,2-Dichloroethene	107		105		70-130		2	30
Dibromomethane	101		101		70-130		0	30
Styrene	99		96		70-130		3	30
Dichlorodifluoromethane	87		84		30-146		4	30
Acetone	64		64		54-140		0	30
Carbon disulfide	104		100		59-130		4	30
2-Butanone	64	Q	61	Q	70-130		5	30
Vinyl acetate	78		76		70-130		3	30
4-Methyl-2-pentanone	75		71		70-130		5	30
1,2,3-Trichloropropane	85		84		68-130		1	30
2-Hexanone	65	Q	62	Q	70-130		5	30
Bromochloromethane	115		111		70-130		4	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,04 Batch: WG1492294-10 WG1492294-11								
2,2-Dichloropropane	109		106		70-130	3	30	30
1,2-Dibromoethane	90		87		70-130	3	30	30
1,3-Dichloropropane	90		89		69-130	1	30	30
1,1,1,2-Tetrachloroethane	94		91		70-130	3	30	30
Bromobenzene	96		95		70-130	1	30	30
n-Butylbenzene	88		86		70-130	2	30	30
sec-Butylbenzene	89		87		70-130	2	30	30
tert-Butylbenzene	93		91		70-130	2	30	30
o-Chlorotoluene	92		93		70-130	1	30	30
p-Chlorotoluene	93		94		70-130	1	30	30
1,2-Dibromo-3-chloropropane	81		78		68-130	4	30	30
Hexachlorobutadiene	94		92		67-130	2	30	30
Isopropylbenzene	93		91		70-130	2	30	30
p-Isopropyltoluene	92		90		70-130	2	30	30
Naphthalene	89		88		70-130	1	30	30
Acrylonitrile	75		68	Q	70-130	10	30	30
n-Propylbenzene	89		88		70-130	1	30	30
1,2,3-Trichlorobenzene	90		88		70-130	2	30	30
1,2,4-Trichlorobenzene	96		94		70-130	2	30	30
1,3,5-Trimethylbenzene	94		93		70-130	1	30	30
1,2,4-Trimethylbenzene	96		95		70-130	1	30	30
1,4-Dioxane	88		87		65-136	1	30	30
p-Diethylbenzene	92		90		70-130	2	30	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,04 Batch: WG14922294-10 WG14922294-11								
p-Ethyltoluene	94		92		70-130	2		30
1,2,4,5-Tetramethylbenzene	93		93		70-130	0		30
Ethyl ether	98		94		67-130	4		30
trans-1,4-Dichloro-2-butene	77		77		70-130	0		30

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	99		100		70-130	
Toluene-d8	96		95		70-130	
4-Bromofluorobenzene	98		101		70-130	
Dibromofluoromethane	106		106		70-130	



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

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Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1492937-3 WG1492937-4								
Methylene chloride	92		91		70-130	1		30
1,1-Dichloroethane	91		90		70-130	1		30
Chloroform	105		104		70-130	1		30
Carbon tetrachloride	111		110		70-130	1		30
1,2-Dichloropropane	89		88		70-130	1		30
Dibromochloromethane	96		93		70-130	3		30
1,1,2-Trichloroethane	92		90		70-130	2		30
Tetrachloroethene	100		95		70-130	5		30
Chlorobenzene	94		91		70-130	3		30
Trichlorofluoromethane	102		98		70-139	4		30
1,2-Dichloroethane	98		99		70-130	1		30
1,1,1-Trichloroethane	111		109		70-130	2		30
Bromodichloromethane	112		110		70-130	2		30
trans-1,3-Dichloropropene	89		87		70-130	2		30
cis-1,3-Dichloropropene	92		90		70-130	2		30
1,1-Dichloropropene	101		99		70-130	2		30
Bromoform	93		93		70-130	0		30
1,1,2,2-Tetrachloroethane	89		87		70-130	2		30
Benzene	100		98		70-130	2		30
Toluene	92		89		70-130	3		30
Ethylbenzene	94		90		70-130	4		30
Chloromethane	74		71		52-130	4		30
Bromomethane	101		98		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1492937-3 WG1492937-4								
Vinyl chloride	90		80		67-130		12	30
Chloroethane	95		90		50-151		5	30
1,1-Dichloroethene	106		104		65-135		2	30
trans-1,2-Dichloroethene	106		103		70-130		3	30
Trichloroethene	105		103		70-130		2	30
1,2-Dichlorobenzene	93		93		70-130		0	30
1,3-Dichlorobenzene	95		93		70-130		2	30
1,4-Dichlorobenzene	94		93		70-130		1	30
Methyl tert butyl ether	103		101		66-130		2	30
p/m-Xylene	96		94		70-130		2	30
o-Xylene	95		94		70-130		1	30
cis-1,2-Dichloroethene	107		105		70-130		2	30
Dibromomethane	101		101		70-130		0	30
Styrene	99		96		70-130		3	30
Dichlorodifluoromethane	87		84		30-146		4	30
Acetone	64		64		54-140		0	30
Carbon disulfide	104		100		59-130		4	30
2-Butanone	64	Q	61	Q	70-130		5	30
Vinyl acetate	78		76		70-130		3	30
4-Methyl-2-pentanone	75		71		70-130		5	30
1,2,3-Trichloropropane	85		84		68-130		1	30
2-Hexanone	65	Q	62	Q	70-130		5	30
Bromochloromethane	115		111		70-130		4	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1492937-3 WG1492937-4								
2,2-Dichloropropane	109		106		70-130	3		30
1,2-Dibromoethane	90		87		70-130	3		30
1,3-Dichloropropane	90		89		69-130	1		30
1,1,1,2-Tetrachloroethane	94		91		70-130	3		30
Bromobenzene	96		95		70-130	1		30
n-Butylbenzene	88		86		70-130	2		30
sec-Butylbenzene	89		87		70-130	2		30
tert-Butylbenzene	93		91		70-130	2		30
o-Chlorotoluene	92		93		70-130	1		30
p-Chlorotoluene	93		94		70-130	1		30
1,2-Dibromo-3-chloropropane	81		78		68-130	4		30
Hexachlorobutadiene	94		92		67-130	2		30
Isopropylbenzene	93		91		70-130	2		30
p-Isopropyltoluene	92		90		70-130	2		30
Naphthalene	89		88		70-130	1		30
Acrylonitrile	75		68	Q	70-130	10		30
n-Propylbenzene	89		88		70-130	1		30
1,2,3-Trichlorobenzene	90		88		70-130	2		30
1,2,4-Trichlorobenzene	96		94		70-130	2		30
1,3,5-Trimethylbenzene	94		93		70-130	1		30
1,2,4-Trimethylbenzene	96		95		70-130	1		30
1,4-Dioxane	88		87		65-136	1		30
p-Diethylbenzene	92		90		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1492937-3 WG1492937-4								
p-Ethyltoluene	94		92		70-130	2	30	
1,2,4,5-Tetramethylbenzene	93		93		70-130	0	30	
Ethyl ether	98		94		67-130	4	30	
trans-1,4-Dichloro-2-butene	77		77		70-130	0	30	

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	99		100		70-130	
Toluene-d8	96		95		70-130	
4-Bromofluorobenzene	99		101		70-130	
Dibromofluoromethane	106		106		70-130	



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

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Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1493050-3 WG1493050-4								
Methylene chloride	90		88		70-130	2		20
1,1-Dichloroethane	95		94		70-130	1		20
Chloroform	90		88		70-130	2		20
Carbon tetrachloride	90		86		63-132	5		20
1,2-Dichloropropane	93		92		70-130	1		20
Dibromochloromethane	90		90		63-130	0		20
1,1,2-Trichloroethane	94		95		70-130	1		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	90		88		62-150	2		20
1,2-Dichloroethane	87		86		70-130	1		20
1,1,1-Trichloroethane	93		90		67-130	3		20
Bromodichloromethane	85		82		67-130	4		20
trans-1,3-Dichloropropene	90		88		70-130	2		20
cis-1,3-Dichloropropene	84		81		70-130	4		20
1,1-Dichloropropene	93		92		70-130	1		20
Bromoform	93		92		54-136	1		20
1,1,2,2-Tetrachloroethane	96		95		67-130	1		20
Benzene	91		88		70-130	3		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	75		79		64-130	5		20
Bromomethane	84		80		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

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Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1493050-3 WG1493050-4								
Vinyl chloride	89		86		55-140		3	20
Chloroethane	90		91		55-138		1	20
1,1-Dichloroethene	94		91		61-145		3	20
trans-1,2-Dichloroethene	94		92		70-130		2	20
Trichloroethene	93		92		70-130		1	20
1,2-Dichlorobenzene	100		100		70-130		0	20
1,3-Dichlorobenzene	100		100		70-130		0	20
1,4-Dichlorobenzene	110		100		70-130		10	20
Methyl tert butyl ether	82		80		63-130		2	20
p/m-Xylene	100		100		70-130		0	20
o-Xylene	100		100		70-130		0	20
cis-1,2-Dichloroethene	94		91		70-130		3	20
Dibromomethane	84		82		70-130		2	20
1,2,3-Trichloropropane	96		99		64-130		3	20
Acrylonitrile	94		95		70-130		1	20
Styrene	95		95		70-130		0	20
Dichlorodifluoromethane	65		64		36-147		2	20
Acetone	100		91		58-148		9	20
Carbon disulfide	91		87		51-130		4	20
2-Butanone	92		88		63-138		4	20
Vinyl acetate	80		78		70-130		3	20
4-Methyl-2-pentanone	91		91		59-130		0	20
2-Hexanone	90		90		57-130		0	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1493050-3 WG1493050-4								
Bromochloromethane	97		92		70-130	5		20
2,2-Dichloropropane	86		83		63-133	4		20
1,2-Dibromoethane	91		91		70-130	0		20
1,3-Dichloropropane	96		95		70-130	1		20
1,1,1,2-Tetrachloroethane	96		93		64-130	3		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	78		78		41-144	0		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	86		89		70-130	3		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	89		94		70-130	5		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	78		78		56-162	0		20
p-Diethylbenzene	110		100		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1493050-3 WG1493050-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	99		99		70-130	0		20
Ethyl ether	87		84		59-134	4		20
trans-1,4-Dichloro-2-butene	95		93		70-130	2		20

Surrogate	LCS		LCSD		Acceptance
	%Recovery	Qual	%Recovery	Qual	Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	110		111		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	97		95		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03 Batch: WG1493711-3 WG1493711-4								
Methylene chloride	82		77		70-130		6	30
1,1-Dichloroethane	99		96		70-130		3	30
Chloroform	93		89		70-130		4	30
Carbon tetrachloride	90		87		70-130		3	30
1,2-Dichloropropane	101		96		70-130		5	30
Dibromochloromethane	87		83		70-130		5	30
1,1,2-Trichloroethane	99		94		70-130		5	30
Tetrachloroethene	96		90		70-130		6	30
Chlorobenzene	95		90		70-130		5	30
Trichlorofluoromethane	100		95		70-139		5	30
1,2-Dichloroethane	98		94		70-130		4	30
1,1,1-Trichloroethane	94		90		70-130		4	30
Bromodichloromethane	97		94		70-130		3	30
trans-1,3-Dichloropropene	106		100		70-130		6	30
cis-1,3-Dichloropropene	100		96		70-130		4	30
1,1-Dichloropropene	96		92		70-130		4	30
Bromoform	90		86		70-130		5	30
1,1,2,2-Tetrachloroethane	106		98		70-130		8	30
Benzene	95		91		70-130		4	30
Toluene	84		79		70-130		6	30
Ethylbenzene	97		93		70-130		4	30
Chloromethane	94		87		52-130		8	30
Bromomethane	103		96		57-147		7	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03 Batch: WG1493711-3 WG1493711-4								
Vinyl chloride	96		90		67-130		6	30
Chloroethane	105		99		50-151		6	30
1,1-Dichloroethene	89		84		65-135		6	30
trans-1,2-Dichloroethene	90		85		70-130		6	30
Trichloroethene	95		90		70-130		5	30
1,2-Dichlorobenzene	94		90		70-130		4	30
1,3-Dichlorobenzene	95		91		70-130		4	30
1,4-Dichlorobenzene	94		90		70-130		4	30
Methyl tert butyl ether	95		88		66-130		8	30
p/m-Xylene	97		93		70-130		4	30
o-Xylene	97		92		70-130		5	30
cis-1,2-Dichloroethene	91		88		70-130		3	30
Dibromomethane	90		87		70-130		3	30
Styrene	100		95		70-130		5	30
Dichlorodifluoromethane	60		54		30-146		11	30
Acetone	114		106		54-140		7	30
Carbon disulfide	84		80		59-130		5	30
2-Butanone	107		98		70-130		9	30
Vinyl acetate	113		105		70-130		7	30
4-Methyl-2-pentanone	91		85		70-130		7	30
1,2,3-Trichloropropane	102		97		68-130		5	30
2-Hexanone	98		91		70-130		7	30
Bromochloromethane	93		88		70-130		6	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03 Batch: WG1493711-3 WG1493711-4								
2,2-Dichloropropane	97		92		70-130	5		30
1,2-Dibromoethane	103		98		70-130	5		30
1,3-Dichloropropane	101		95		69-130	6		30
1,1,1,2-Tetrachloroethane	101		96		70-130	5		30
Bromobenzene	94		89		70-130	5		30
n-Butylbenzene	103		99		70-130	4		30
sec-Butylbenzene	98		94		70-130	4		30
tert-Butylbenzene	96		92		70-130	4		30
o-Chlorotoluene	99		94		70-130	5		30
p-Chlorotoluene	100		96		70-130	4		30
1,2-Dibromo-3-chloropropane	80		78		68-130	3		30
Hexachlorobutadiene	91		88		67-130	3		30
Isopropylbenzene	99		95		70-130	4		30
p-Isopropyltoluene	97		93		70-130	4		30
Naphthalene	91		87		70-130	4		30
Acrylonitrile	114		110		70-130	4		30
n-Propylbenzene	102		97		70-130	5		30
1,2,3-Trichlorobenzene	94		90		70-130	4		30
1,2,4-Trichlorobenzene	97		94		70-130	3		30
1,3,5-Trimethylbenzene	98		94		70-130	4		30
1,2,4-Trimethylbenzene	99		95		70-130	4		30
1,4-Dioxane	84		79		65-136	6		30
p-Diethylbenzene	98		94		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03 Batch: WG1493711-3 WG1493711-4								
p-Ethyltoluene	99		95		70-130		4	30
1,2,4,5-Tetramethylbenzene	99		94		70-130		5	30
Ethyl ether	104		98		67-130		6	30
trans-1,4-Dichloro-2-butene	120		111		70-130		8	30

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	103		103		70-130	
Toluene-d8	101		101		70-130	
4-Bromofluorobenzene	102		101		70-130	
Dibromofluoromethane	92		94		70-130	



SEMIVOLATILES

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-01
 Client ID: SB001_0-2
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 09:10
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/04/21 12:37
 Analyst: IM
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/03/21 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	420		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	6300		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	250		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	63	J	ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Date Collected: 04/21/21 09:10

Client ID: SB001_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	3400		ug/kg	100	19.	1
Benzo(a)pyrene	3300		ug/kg	140	42.	1
Benzo(b)fluoranthene	4200		ug/kg	100	29.	1
Benzo(k)fluoranthene	1300		ug/kg	100	27.	1
Chrysene	3200		ug/kg	100	18.	1
Acenaphthylene	370		ug/kg	140	26.	1
Anthracene	1200		ug/kg	100	33.	1
Benzo(ghi)perylene	2000		ug/kg	140	20.	1
Fluorene	350		ug/kg	170	17.	1
Phenanthrene	4500		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	390		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	2200		ug/kg	140	24.	1
Pyrene	5500		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	250		ug/kg	170	16.	1
2-Methylnaphthalene	100	J	ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	29	J	ug/kg	250	27.	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Date Collected: 04/21/21 09:10

Client ID: SB001_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	590		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	48		18-120

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-02
 Client ID: SB002_3-5
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:20
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/04/21 13:00
 Analyst: IM
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 05/03/21 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	250		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	3400		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	190		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	84	J	ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	50	J	ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-02

Date Collected: 04/21/21 10:20

Client ID: SB002_3-5

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	1600		ug/kg	110	21.	1
Benzo(a)pyrene	1500		ug/kg	150	46.	1
Benzo(b)fluoranthene	1800		ug/kg	110	32.	1
Benzo(k)fluoranthene	730		ug/kg	110	30.	1
Chrysene	1600		ug/kg	110	19.	1
Acenaphthylene	120	J	ug/kg	150	29.	1
Anthracene	620		ug/kg	110	36.	1
Benzo(ghi)perylene	820		ug/kg	150	22.	1
Fluorene	250		ug/kg	190	18.	1
Phenanthrene	2900		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	180		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	880		ug/kg	150	26.	1
Pyrene	3000		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	170	J	ug/kg	190	18.	1
2-Methylnaphthalene	97	J	ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-02

Date Collected: 04/21/21 10:20

Client ID: SB002_3-5

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	280		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	53		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	43		18-120

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-03
 Client ID: SB003_0-2
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:45
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/04/21 13:24
 Analyst: IM
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 05/03/21 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	67	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	3000		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	110	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	380		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-03

Date Collected: 04/21/21 10:45

Client ID: SB003_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	1800		ug/kg	110	20.	1
Benzo(a)pyrene	1800		ug/kg	150	44.	1
Benzo(b)fluoranthene	2000		ug/kg	110	31.	1
Benzo(k)fluoranthene	780		ug/kg	110	29.	1
Chrysene	1600		ug/kg	110	19.	1
Acenaphthylene	190		ug/kg	150	28.	1
Anthracene	360		ug/kg	110	36.	1
Benzo(ghi)perylene	970		ug/kg	150	21.	1
Fluorene	120	J	ug/kg	180	18.	1
Phenanthrene	1400		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	190		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1000		ug/kg	150	25.	1
Pyrene	2700		ug/kg	110	18.	1
Biphenyl	2200		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	56	J	ug/kg	180	17.	1
2-Methylnaphthalene	30	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-03

Date Collected: 04/21/21 10:45

Client ID: SB003_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	190		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	42		18-120

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-04
 Client ID: SB004_5-7
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 11:50
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/04/21 13:47
 Analyst: IM
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 05/03/21 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	25	J	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-04

Date Collected: 04/21/21 11:50

Client ID: SB004_5-7

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	24	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-04

Date Collected: 04/21/21 11:50

Client ID: SB004_5-7

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	30		10-136
4-Terphenyl-d14	52		18-120

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-05
 Client ID: GW001
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:10
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/29/21 03:49
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/28/21 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.9	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-05

Date Collected: 04/21/21 10:10

Client ID: GW001

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	89		41-149

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-05
 Client ID: GW001
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:10
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/29/21 15:10
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 04/28/21 07:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.13		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-05

Date Collected: 04/21/21 10:10

Client ID: GW001

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	71		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	107		41-149

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06
 Client ID: GW002
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 11:15
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/29/21 04:12
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/28/21 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.0	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	0.48	J	ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06

Date Collected: 04/21/21 11:15

Client ID: GW002

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		21-120
Phenol-d6	82		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	114		15-120
2,4,6-Tribromophenol	154	Q	10-120
4-Terphenyl-d14	124		41-149

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06
 Client ID: GW002
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 11:15
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/29/21 15:28
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 04/28/21 07:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.20		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.22		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.17		ug/l	0.10	0.01	1
Phenanthrene	0.66		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.20		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.14		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-06

Date Collected: 04/21/21 11:15

Client ID: GW002

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		21-120
Phenol-d6	74		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	131	Q	15-120
2,4,6-Tribromophenol	123	Q	10-120
4-Terphenyl-d14	152	Q	41-149

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-06 RE
 Client ID: GW002
 Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 11:15
 Date Received: 04/21/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/21 18:34
 Analyst: JRW

Extraction Method: EPA 3510C
 Extraction Date: 05/03/21 16:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.20		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.08	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.06	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.07	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.04	J	ug/l	0.10	0.01	1
Fluorene	0.11		ug/l	0.10	0.01	1
Phenanthrene	0.40		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.01	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.20		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**SAMPLE RESULTS**

Lab ID: L2120445-06 RE

Date Collected: 04/21/21 11:15

Client ID: GW002

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	103		41-149

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/28/21 10:18
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/27/21 08:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1491144-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/28/21 10:18
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/27/21 08:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1491144-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/28/21 10:18
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/27/21 08:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1491144-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	98		41-149

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/28/21 11:53
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 04/27/21 08:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05-06 Batch: WG1491146-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/28/21 11:53
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 04/27/21 08:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05-06 Batch: WG1491146-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	99		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	132		41-149

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/03/21 22:22
 Analyst: IM

Extraction Method: EPA 3546
 Extraction Date: 05/02/21 23:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1493498-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	29.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	57.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/03/21 22:22
 Analyst: IM

Extraction Method: EPA 3546
 Extraction Date: 05/02/21 23:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1493498-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	39.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	21.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	63.

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/03/21 22:22
 Analyst: IM

Extraction Method: EPA 3546
 Extraction Date: 05/02/21 23:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1493498-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.7

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	54		18-120

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/21 14:47
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/03/21 16:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 06 Batch: WG1493752-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: ICF2102**Project Number:** ICF2102**Lab Number:** L2120445**Report Date:** 05/05/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/21 14:47
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/03/21 16:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 06 Batch: WG1493752-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	63		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1491144-2 WG1491144-3								
Acenaphthene	70		78		37-111	11		30
1,2,4-Trichlorobenzene	65		72		39-98	10		30
Hexachlorobenzene	88		95		40-140	8		30
Bis(2-chloroethyl)ether	61		71		40-140	15		30
2-Chloronaphthalene	74		82		40-140	10		30
1,2-Dichlorobenzene	61		69		40-140	12		30
1,3-Dichlorobenzene	60		66		40-140	10		30
1,4-Dichlorobenzene	60		67		36-97	11		30
3,3'-Dichlorobenzidine	66		68		40-140	3		30
2,4-Dinitrotoluene	85		98		48-143	14		30
2,6-Dinitrotoluene	83		94		40-140	12		30
Fluoranthene	79		84		40-140	6		30
4-Chlorophenyl phenyl ether	86		94		40-140	9		30
4-Bromophenyl phenyl ether	89		99		40-140	11		30
Bis(2-chloroisopropyl)ether	54		61		40-140	12		30
Bis(2-chloroethoxy)methane	63		68		40-140	8		30
Hexachlorobutadiene	69		77		40-140	11		30
Hexachlorocyclopentadiene	72		78		40-140	8		30
Hexachloroethane	60		69		40-140	14		30
Isophorone	66		71		40-140	7		30
Naphthalene	69		76		40-140	10		30
Nitrobenzene	62		71		40-140	14		30
NDPA/DPA	84		95		40-140	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1491144-2 WG1491144-3								
n-Nitrosodi-n-propylamine	66		71		29-132		7	30
Bis(2-ethylhexyl)phthalate	84		88		40-140		5	30
Butyl benzyl phthalate	85		91		40-140		7	30
Di-n-butylphthalate	77		84		40-140		9	30
Di-n-octylphthalate	89		94		40-140		5	30
Diethyl phthalate	94		106		40-140		12	30
Dimethyl phthalate	93		101		40-140		8	30
Benzo(a)anthracene	80		85		40-140		6	30
Benzo(a)pyrene	99		100		40-140		1	30
Benzo(b)fluoranthene	89		89		40-140		0	30
Benzo(k)fluoranthene	90		97		40-140		7	30
Chrysene	86		88		40-140		2	30
Acenaphthylene	76		86		45-123		12	30
Anthracene	79		87		40-140		10	30
Benzo(ghi)perylene	85		93		40-140		9	30
Fluorene	82		91		40-140		10	30
Phenanthrene	77		83		40-140		8	30
Dibenzo(a,h)anthracene	90		98		40-140		9	30
Indeno(1,2,3-cd)pyrene	83		94		40-140		12	30
Pyrene	80		84		26-127		5	30
Biphenyl	77		82		40-140		6	30
4-Chloroaniline	68		72		40-140		6	30
2-Nitroaniline	84		95		52-143		12	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1491144-2 WG1491144-3								
3-Nitroaniline	78		83		25-145	6		30
4-Nitroaniline	82		91		51-143	10		30
Dibenzofuran	76		84		40-140	10		30
2-Methylnaphthalene	69		78		40-140	12		30
1,2,4,5-Tetrachlorobenzene	79		85		2-134	7		30
Acetophenone	68		74		39-129	8		30
2,4,6-Trichlorophenol	86		96		30-130	11		30
p-Chloro-m-cresol	80		87		23-97	8		30
2-Chlorophenol	70		77		27-123	10		30
2,4-Dichlorophenol	73		79		30-130	8		30
2,4-Dimethylphenol	63		70		30-130	11		30
2-Nitrophenol	74		83		30-130	11		30
4-Nitrophenol	76		86	Q	10-80	12		30
2,4-Dinitrophenol	91		106		20-130	15		30
4,6-Dinitro-o-cresol	97		108		20-164	11		30
Pentachlorophenol	80		88		9-103	10		30
Phenol	50		57		12-110	13		30
2-Methylphenol	64		71		30-130	10		30
3-Methylphenol/4-Methylphenol	71		76		30-130	7		30
2,4,5-Trichlorophenol	89		99		30-130	11		30
Benzoic Acid	41		48		10-164	16		30
Benzyl Alcohol	61		67		26-116	9		30
Carbazole	78		88		55-144	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1491144-2 WG1491144-3								
Surrogate	LCS		LCSD		Acceptance			
	%Recovery	Qual	%Recovery	Qual				
2-Fluorophenol	70		79					21-120
Phenol-d6	57		65					10-120
Nitrobenzene-d5	78		87					23-120
2-Fluorobiphenyl	89		95					15-120
2,4,6-Tribromophenol	100		123				Q	10-120
4-Terphenyl-d14	90		97					41-149



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05-06 Batch: WG1491146-2 WG1491146-3								
Acenaphthene	90		82		40-140		9	40
2-Chloronaphthalene	91		81		40-140		12	40
Fluoranthene	106		108		40-140		2	40
Hexachlorobutadiene	82		71		40-140		14	40
Naphthalene	79		69		40-140		14	40
Benzo(a)anthracene	87		89		40-140		2	40
Benzo(a)pyrene	102		103		40-140		1	40
Benzo(b)fluoranthene	91		90		40-140		1	40
Benzo(k)fluoranthene	106		108		40-140		2	40
Chrysene	98		100		40-140		2	40
Acenaphthylene	93		84		40-140		10	40
Anthracene	107		105		40-140		2	40
Benzo(ghi)perylene	96		96		40-140		0	40
Fluorene	106		99		40-140		7	40
Phenanthrene	89		88		40-140		1	40
Dibenzo(a,h)anthracene	103		103		40-140		0	40
Indeno(1,2,3-cd)pyrene	100		101		40-140		1	40
Pyrene	108		110		40-140		2	40
2-Methylnaphthalene	85		75		40-140		13	40
Pentachlorophenol	89		92		40-140		3	40
Hexachlorobenzene	96		91		40-140		5	40
Hexachloroethane	87		77		40-140		12	40

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05-06 Batch: WG1491146-2 WG1491146-3								
Surrogate	LCS		LCSD		Acceptance			
	%Recovery	Qual	%Recovery	Qual				
2-Fluorophenol		83		73				21-120
Phenol-d6		70		61				10-120
Nitrobenzene-d5		107		96				23-120
2-Fluorobiphenyl		103		91				15-120
2,4,6-Tribromophenol		114		115				10-120
4-Terphenyl-d14		132		133				41-149



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatiles Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1493498-2 WG1493498-3								
Acenaphthene	58		52		31-137	11		50
1,2,4-Trichlorobenzene	63		58		38-107	8		50
Hexachlorobenzene	55		49		40-140	12		50
Bis(2-chloroethyl)ether	64		55		40-140	15		50
2-Chloronaphthalene	64		57		40-140	12		50
1,2-Dichlorobenzene	60		54		40-140	11		50
1,3-Dichlorobenzene	57		52		40-140	9		50
1,4-Dichlorobenzene	58		52		28-104	11		50
3,3'-Dichlorobenzidine	50		46		40-140	8		50
2,4-Dinitrotoluene	59		53		40-132	11		50
2,6-Dinitrotoluene	69		63		40-140	9		50
Fluoranthene	56		51		40-140	9		50
4-Chlorophenyl phenyl ether	56		50		40-140	11		50
4-Bromophenyl phenyl ether	56		48		40-140	15		50
Bis(2-chloroisopropyl)ether	80		72		40-140	11		50
Bis(2-chloroethoxy)methane	66		60		40-117	10		50
Hexachlorobutadiene	62		53		40-140	16		50
Hexachlorocyclopentadiene	51		44		40-140	15		50
Hexachloroethane	68		61		40-140	11		50
Isophorone	69		63		40-140	9		50
Naphthalene	60		53		40-140	12		50
Nitrobenzene	72		65		40-140	10		50
NDPA/DPA	60		53		36-157	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1493498-2 WG1493498-3								
n-Nitrosodi-n-propylamine	74		68		32-121		8	50
Bis(2-ethylhexyl)phthalate	67		60		40-140		11	50
Butyl benzyl phthalate	64		58		40-140		10	50
Di-n-butylphthalate	63		57		40-140		10	50
Di-n-octylphthalate	64		59		40-140		8	50
Diethyl phthalate	61		56		40-140		9	50
Dimethyl phthalate	66		59		40-140		11	50
Benzo(a)anthracene	59		52		40-140		13	50
Benzo(a)pyrene	57		52		40-140		9	50
Benzo(b)fluoranthene	54		49		40-140		10	50
Benzo(k)fluoranthene	56		51		40-140		9	50
Chrysene	55		49		40-140		12	50
Acenaphthylene	61		54		40-140		12	50
Anthracene	57		51		40-140		11	50
Benzo(ghi)perylene	59		52		40-140		13	50
Fluorene	58		53		40-140		9	50
Phenanthrene	57		50		40-140		13	50
Dibenzo(a,h)anthracene	57		50		40-140		13	50
Indeno(1,2,3-cd)pyrene	57		51		40-140		11	50
Pyrene	56		51		35-142		9	50
Biphenyl	60		53		37-127		12	50
4-Chloroaniline	64		55		40-140		15	50
2-Nitroaniline	72		65		47-134		10	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1493498-2 WG1493498-3								
3-Nitroaniline	49		45		26-129	9	50	
4-Nitroaniline	62		57		41-125	8	50	
Dibenzofuran	57		51		40-140	11	50	
2-Methylnaphthalene	61		53		40-140	14	50	
1,2,4,5-Tetrachlorobenzene	60		52		40-117	14	50	
Acetophenone	64		58		14-144	10	50	
2,4,6-Trichlorophenol	70		63		30-130	11	50	
p-Chloro-m-cresol	71		63		26-103	12	50	
2-Chlorophenol	67		62		25-102	8	50	
2,4-Dichlorophenol	74		67		30-130	10	50	
2,4-Dimethylphenol	70		65		30-130	7	50	
2-Nitrophenol	74		68		30-130	8	50	
4-Nitrophenol	87		77		11-114	12	50	
2,4-Dinitrophenol	67		63		4-130	6	50	
4,6-Dinitro-o-cresol	67		61		10-130	9	50	
Pentachlorophenol	56		50		17-109	11	50	
Phenol	65		58		26-90	11	50	
2-Methylphenol	72		64		30-130.	12	50	
3-Methylphenol/4-Methylphenol	71		64		30-130	10	50	
2,4,5-Trichlorophenol	72		65		30-130	10	50	
Benzoic Acid	53		48		10-110	10	50	
Benzyl Alcohol	74		66		40-140	11	50	
Carbazole	59		53	Q	54-128	11	50	



Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1493498-2 WG1493498-3								
1,4-Dioxane	49		43		40-140	13		50

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		60		25-120
Phenol-d6	71		64		10-120
Nitrobenzene-d5	72		67		23-120
2-Fluorobiphenyl	60		54		30-120
2,4,6-Tribromophenol	66		59		10-136
4-Terphenyl-d14	51		46		18-120



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 06 Batch: WG1493752-2 WG1493752-3								
Acenaphthene	45		61		40-140		30	40
2-Chloronaphthalene	45		61		40-140		30	40
Fluoranthene	52		67		40-140		25	40
Hexachlorobutadiene	38	Q	51		40-140		29	40
Naphthalene	44		59		40-140		29	40
Benzo(a)anthracene	52		67		40-140		25	40
Benzo(a)pyrene	54		70		40-140		26	40
Benzo(b)fluoranthene	51		66		40-140		26	40
Benzo(k)fluoranthene	48		62		40-140		25	40
Chrysene	48		61		40-140		24	40
Acenaphthylene	44		59		40-140		29	40
Anthracene	50		65		40-140		26	40
Benzo(ghi)perylene	56		71		40-140		24	40
Fluorene	48		64		40-140		29	40
Phenanthrene	46		60		40-140		26	40
Dibenzo(a,h)anthracene	59		75		40-140		24	40
Indeno(1,2,3-cd)pyrene	61		76		40-140		22	40
Pyrene	53		68		40-140		25	40
2-Methylnaphthalene	45		61		40-140		30	40
Pentachlorophenol	65		86		40-140		28	40
Hexachlorobenzene	39	Q	60		40-140		42	Q 40
Hexachloroethane	40		54		40-140		30	40

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 06 Batch: WG1493752-2 WG1493752-3								
Surrogate	LCS		LCSD		Acceptance			
	%Recovery	Qual	%Recovery	Qual				
2-Fluorophenol								21-120
Phenol-d6	48		65					10-120
Nitrobenzene-d5	40		56					23-120
2-Fluorobiphenyl	60		81					15-120
2,4,6-Tribromophenol	51		69					10-120
4-Terphenyl-d14	73		92					41-149
	56		72					



METALS

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Date Collected: 04/21/21 09:10

Client ID: SB001_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4340		mg/kg	8.30	2.24	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Antimony, Total	0.423	J	mg/kg	4.15	0.315	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Arsenic, Total	1.68		mg/kg	0.830	0.173	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Barium, Total	196		mg/kg	0.830	0.144	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Beryllium, Total	0.232	J	mg/kg	0.415	0.027	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Cadmium, Total	0.531	J	mg/kg	0.830	0.081	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Calcium, Total	5340		mg/kg	8.30	2.90	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Chromium, Total	14.1		mg/kg	0.830	0.080	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Cobalt, Total	5.21		mg/kg	1.66	0.138	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Copper, Total	22.3		mg/kg	0.830	0.214	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Iron, Total	10800		mg/kg	4.15	0.749	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Lead, Total	839		mg/kg	4.15	0.222	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Magnesium, Total	3920		mg/kg	8.30	1.28	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Manganese, Total	234		mg/kg	0.830	0.132	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Mercury, Total	0.105		mg/kg	0.075	0.049	1	04/29/21 22:39	04/30/21 13:38	EPA 7471B	1,7471B	NB
Nickel, Total	12.1		mg/kg	2.07	0.201	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Potassium, Total	831		mg/kg	207	12.0	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.66	0.214	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.830	0.235	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Sodium, Total	114	J	mg/kg	166	2.61	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.66	0.261	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Vanadium, Total	20.9		mg/kg	0.830	0.168	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV
Zinc, Total	166		mg/kg	4.15	0.243	2	04/29/21 22:11	04/30/21 17:52	EPA 3050B	1,6010D	BV



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-02

Date Collected: 04/21/21 10:20

Client ID: SB002_3-5

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5910		mg/kg	8.59	2.32	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Antimony, Total	3.24	J	mg/kg	4.29	0.326	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Arsenic, Total	11.9		mg/kg	0.859	0.178	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Barium, Total	207		mg/kg	0.859	0.149	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Beryllium, Total	0.421	J	mg/kg	0.429	0.028	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Cadmium, Total	1.99		mg/kg	0.859	0.084	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Calcium, Total	2230		mg/kg	8.59	3.00	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Chromium, Total	19.2		mg/kg	0.859	0.082	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Cobalt, Total	10.3		mg/kg	1.72	0.142	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Copper, Total	297		mg/kg	0.859	0.222	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Iron, Total	24200		mg/kg	4.29	0.775	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Lead, Total	940		mg/kg	4.29	0.230	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Magnesium, Total	1460		mg/kg	8.59	1.32	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Manganese, Total	313		mg/kg	0.859	0.136	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Mercury, Total	1.78		mg/kg	0.071	0.046	1	04/29/21 22:39	04/30/21 13:42	EPA 7471B	1,7471B	NB
Nickel, Total	18.6		mg/kg	2.15	0.208	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Potassium, Total	358		mg/kg	215	12.4	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Selenium, Total	1.02	J	mg/kg	1.72	0.222	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Silver, Total	0.764	J	mg/kg	0.859	0.243	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Sodium, Total	75.6	J	mg/kg	172	2.70	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.72	0.270	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Vanadium, Total	56.3		mg/kg	0.859	0.174	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV
Zinc, Total	484		mg/kg	4.29	0.252	2	04/29/21 22:11	04/30/21 17:57	EPA 3050B	1,6010D	BV



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-03

Date Collected: 04/21/21 10:45

Client ID: SB003_0-2

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3560		mg/kg	8.34	2.25	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Antimony, Total	0.609	J	mg/kg	4.17	0.317	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Arsenic, Total	2.21		mg/kg	0.834	0.173	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Barium, Total	99.2		mg/kg	0.834	0.145	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Beryllium, Total	0.217	J	mg/kg	0.417	0.028	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Cadmium, Total	0.508	J	mg/kg	0.834	0.082	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Calcium, Total	8310		mg/kg	8.34	2.92	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Chromium, Total	10.4		mg/kg	0.834	0.080	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Cobalt, Total	4.28		mg/kg	1.67	0.138	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Copper, Total	31.8		mg/kg	0.834	0.215	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Iron, Total	11800		mg/kg	4.17	0.753	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Lead, Total	632		mg/kg	4.17	0.223	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Magnesium, Total	2170		mg/kg	8.34	1.28	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Manganese, Total	292		mg/kg	0.834	0.132	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Mercury, Total	0.241		mg/kg	0.072	0.047	1	04/29/21 22:39	04/30/21 13:45	EPA 7471B	1,7471B	NB
Nickel, Total	8.82		mg/kg	2.08	0.202	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Potassium, Total	435		mg/kg	208	12.0	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.67	0.215	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.834	0.236	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Sodium, Total	82.0	J	mg/kg	167	2.63	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.67	0.263	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Vanadium, Total	16.6		mg/kg	0.834	0.169	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV
Zinc, Total	144		mg/kg	4.17	0.244	2	04/29/21 22:11	04/30/21 18:02	EPA 3050B	1,6010D	BV



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-04

Date Collected: 04/21/21 11:50

Client ID: SB004_5-7

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4340		mg/kg	8.43	2.28	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Antimony, Total	0.413	J	mg/kg	4.22	0.320	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Arsenic, Total	1.90		mg/kg	0.843	0.175	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Barium, Total	34.3		mg/kg	0.843	0.147	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Beryllium, Total	0.211	J	mg/kg	0.422	0.028	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Cadmium, Total	0.362	J	mg/kg	0.843	0.083	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Calcium, Total	21400		mg/kg	8.43	2.95	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Chromium, Total	13.1		mg/kg	0.843	0.081	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Cobalt, Total	4.91		mg/kg	1.69	0.140	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Copper, Total	14.6		mg/kg	0.843	0.218	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Iron, Total	12900		mg/kg	4.22	0.761	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Lead, Total	75.3		mg/kg	4.22	0.226	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Magnesium, Total	3190		mg/kg	8.43	1.30	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Manganese, Total	320		mg/kg	0.843	0.134	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.073	0.048	1	04/29/21 22:39	04/30/21 13:48	EPA 7471B	1,7471B	NB
Nickel, Total	11.2		mg/kg	2.11	0.204	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Potassium, Total	504		mg/kg	211	12.1	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.69	0.218	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.843	0.238	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Sodium, Total	209		mg/kg	169	2.66	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.69	0.266	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Vanadium, Total	15.4		mg/kg	0.843	0.171	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV
Zinc, Total	103		mg/kg	4.22	0.247	2	04/29/21 22:11	04/30/21 18:07	EPA 3050B	1,6010D	BV



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-05

Date Collected: 04/21/21 10:10

Client ID: GW001

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10.3		mg/l	0.0100	0.00327	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Antimony, Total	0.00050	J	mg/l	0.00400	0.00042	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00627		mg/l	0.00050	0.00016	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Barium, Total	1.076		mg/l	0.00050	0.00017	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00143		mg/l	0.00050	0.00010	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00157		mg/l	0.00020	0.00005	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Calcium, Total	1140		mg/l	2.00	0.788	20	04/30/21 09:05	04/30/21 18:14	EPA 3005A	1,6020B	CD
Chromium, Total	0.06868		mg/l	0.00100	0.00017	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Cobalt, Total	0.1017		mg/l	0.00050	0.00016	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Copper, Total	0.1697		mg/l	0.00100	0.00038	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Iron, Total	27.0		mg/l	0.0500	0.0191	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Lead, Total	0.02751		mg/l	0.00100	0.00034	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Magnesium, Total	155.		mg/l	0.0700	0.0242	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Manganese, Total	13.86		mg/l	0.02000	0.00880	20	04/30/21 09:05	04/30/21 18:14	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/30/21 09:58	04/30/21 16:26	EPA 7470A	1,7470A	NB
Nickel, Total	0.2017		mg/l	0.00200	0.00055	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Potassium, Total	10.6		mg/l	0.100	0.0309	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Selenium, Total	0.00738		mg/l	0.00500	0.00173	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Sodium, Total	6.29		mg/l	0.100	0.0293	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Thallium, Total	0.00045	J	mg/l	0.00100	0.00014	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Vanadium, Total	0.02300		mg/l	0.00500	0.00157	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Zinc, Total	2.720		mg/l	0.01000	0.00341	1	04/30/21 09:05	04/30/21 16:59	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	1.07		mg/l	0.0100	0.00327	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00078	J	mg/l	0.00400	0.00042	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00035	J	mg/l	0.00050	0.00016	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.02464		mg/l	0.00050	0.00017	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-05

Date Collected: 04/21/21 10:10

Client ID: GW001

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Calcium, Dissolved	24.0		mg/l	0.100	0.0394	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Chromium, Dissolved	0.00361		mg/l	0.00100	0.00017	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00110		mg/l	0.00050	0.00016	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Copper, Dissolved	0.00489		mg/l	0.00100	0.00038	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Iron, Dissolved	2.29		mg/l	0.0500	0.0191	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Lead, Dissolved	0.00143		mg/l	0.00100	0.00034	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	7.62		mg/l	0.0700	0.0242	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Manganese, Dissolved	0.05244		mg/l	0.00100	0.00044	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	04/30/21 15:58	05/01/21 15:06	EPA 7470A	1,7470A	NB
Nickel, Dissolved	0.00339		mg/l	0.00200	0.00055	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Potassium, Dissolved	2.66		mg/l	0.100	0.0309	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Sodium, Dissolved	2.95		mg/l	0.100	0.0293	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Thallium, Dissolved	0.00037	J	mg/l	0.00100	0.00014	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	0.00268	J	mg/l	0.00500	0.00157	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD
Zinc, Dissolved	0.01715		mg/l	0.01000	0.00341	1	04/30/21 15:36	05/03/21 11:39	EPA 3005A	1,6020B	CD



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06

Date Collected: 04/21/21 11:15

Client ID: GW002

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8.17		mg/l	0.0200	0.00654	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00800	0.00085	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00405		mg/l	0.00100	0.00033	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Barium, Total	2.045		mg/l	0.00100	0.00034	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00149		mg/l	0.00100	0.00021	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00262		mg/l	0.00040	0.00011	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Calcium, Total	2040		mg/l	4.00	1.58	20	04/30/21 09:05	04/30/21 18:37	EPA 3005A	1,6020B	CD
Chromium, Total	0.05277		mg/l	0.00200	0.00035	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Cobalt, Total	0.1522		mg/l	0.00100	0.00032	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Copper, Total	0.05881		mg/l	0.00200	0.00076	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Iron, Total	13.9		mg/l	0.100	0.0382	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Lead, Total	0.02288		mg/l	0.00200	0.00068	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Magnesium, Total	153.		mg/l	0.140	0.0484	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Manganese, Total	17.70		mg/l	0.00200	0.00088	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/30/21 09:58	04/30/21 16:29	EPA 7470A	1,7470A	NB
Nickel, Total	0.1293		mg/l	0.00400	0.00111	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Potassium, Total	18.2		mg/l	0.200	0.0618	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Selenium, Total	0.0133		mg/l	0.0100	0.00346	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00080	0.00032	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Sodium, Total	29.6		mg/l	0.200	0.0586	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Thallium, Total	0.00054	J	mg/l	0.00200	0.00028	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Vanadium, Total	0.01435		mg/l	0.01000	0.00314	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Zinc, Total	0.1109		mg/l	0.02000	0.00682	1	04/30/21 09:05	04/30/21 17:04	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00986	J	mg/l	0.0100	0.00327	1	05/03/21 13:42	05/03/21 19:01	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00051	J	mg/l	0.00400	0.00042	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00022	J	mg/l	0.00050	0.00016	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.07930		mg/l	0.00050	0.00017	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-06

Date Collected: 04/21/21 11:15

Client ID: GW002

Date Received: 04/21/21

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Calcium, Dissolved	98.7		mg/l	0.100	0.0394	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00196		mg/l	0.00050	0.00016	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Copper, Dissolved	0.00047	J	mg/l	0.00100	0.00038	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Iron, Dissolved	0.0466	J	mg/l	0.0500	0.0191	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	34.0		mg/l	0.0700	0.0242	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Manganese, Dissolved	0.2827		mg/l	0.00100	0.00044	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	04/30/21 15:58	05/01/21 14:56	EPA 7470A	1,7470A	NB
Nickel, Dissolved	0.00638		mg/l	0.00200	0.00055	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Potassium, Dissolved	5.32		mg/l	0.100	0.0309	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Selenium, Dissolved	0.00432	J	mg/l	0.00500	0.00173	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Sodium, Dissolved	23.9		mg/l	0.100	0.0293	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Thallium, Dissolved	0.00022	J	mg/l	0.00100	0.00014	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/30/21 15:36	05/03/21 11:43	EPA 3005A	1,6020B	CD



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1491407-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Copper, Total	0.468		mg/kg	0.400	0.103	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Iron, Total	ND		mg/kg	2.00	0.361	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/29/21 22:11	04/30/21 15:07	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1491409-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/29/21 22:39	04/30/21 12:49	1,7471B	NB



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1492300-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Manganese, Total	0.00046	J	mg/l	0.00100	0.00044	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/30/21 09:05	04/30/21 16:30	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A



Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1492301-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/30/21 09:58	04/30/21 16:10	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1492818-1										
Aluminum, Dissolved	0.0219		mg/l	0.0100	0.00327	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Antimony, Dissolved	0.00056	J	mg/l	0.00400	0.00042	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Iron, Dissolved	0.0242	J	mg/l	0.0500	0.0191	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Sodium, Dissolved	0.117		mg/l	0.100	0.0293	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD
Zinc, Dissolved	0.00956	J	mg/l	0.01000	0.00341	1	04/30/21 15:36	05/03/21 11:15	1,6020B	CD

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1492819-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00009	1	04/30/21 15:58	05/01/21 14:42	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 06 Batch: WG1493733-1									
Aluminum, Dissolved	ND	mg/l	0.0100	0.00327	1	05/03/21 13:42	05/03/21 18:32	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1491407-2 SRM Lot Number: D109-540									
Aluminum, Total	71		-		50-150		-		
Antimony, Total	157		-		19-250		-		
Arsenic, Total	113		-		70-130		-		
Barium, Total	105		-		75-125		-		
Beryllium, Total	107		-		75-125		-		
Cadmium, Total	112		-		75-125		-		
Calcium, Total	102		-		73-128		-		
Chromium, Total	102		-		70-130		-		
Cobalt, Total	108		-		75-125		-		
Copper, Total	107		-		75-125		-		
Iron, Total	100		-		35-165		-		
Lead, Total	106		-		72-128		-		
Magnesium, Total	90		-		62-138		-		
Manganese, Total	107		-		74-126		-		
Nickel, Total	109		-		70-130		-		
Potassium, Total	91		-		59-141		-		
Selenium, Total	111		-		68-132		-		
Silver, Total	107		-		68-131		-		
Sodium, Total	104		-		35-165		-		
Thallium, Total	104		-		68-131		-		
Vanadium, Total	101		-		59-141		-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1491407-2 SRM Lot Number: D109-540					
Zinc, Total	106	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1491409-2 SRM Lot Number: D109-540					
Mercury, Total	87	-	60-140	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1492300-2					
Aluminum, Total	90	-	80-120	-	
Antimony, Total	92	-	80-120	-	
Arsenic, Total	104	-	80-120	-	
Barium, Total	102	-	80-120	-	
Beryllium, Total	98	-	80-120	-	
Cadmium, Total	107	-	80-120	-	
Calcium, Total	80	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Cobalt, Total	98	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	100	-	80-120	-	
Lead, Total	98	-	80-120	-	
Magnesium, Total	99	-	80-120	-	
Manganese, Total	95	-	80-120	-	
Nickel, Total	95	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	94	-	80-120	-	
Vanadium, Total	95	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1492300-2					
Zinc, Total	107	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1492301-2					
Mercury, Total	96	-	80-120	-	



Lab Control Sample Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1492818-2					
Aluminum, Dissolved	100	-	80-120	-	
Antimony, Dissolved	89	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	100	-	80-120	-	
Beryllium, Dissolved	102	-	80-120	-	
Cadmium, Dissolved	107	-	80-120	-	
Calcium, Dissolved	105	-	80-120	-	
Chromium, Dissolved	97	-	80-120	-	
Cobalt, Dissolved	100	-	80-120	-	
Copper, Dissolved	101	-	80-120	-	
Iron, Dissolved	100	-	80-120	-	
Lead, Dissolved	104	-	80-120	-	
Magnesium, Dissolved	101	-	80-120	-	
Manganese, Dissolved	96	-	80-120	-	
Nickel, Dissolved	97	-	80-120	-	
Potassium, Dissolved	106	-	80-120	-	
Selenium, Dissolved	108	-	80-120	-	
Silver, Dissolved	102	-	80-120	-	
Sodium, Dissolved	102	-	80-120	-	
Thallium, Dissolved	102	-	80-120	-	
Vanadium, Dissolved	96	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1492818-2					
Zinc, Dissolved	109	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1492819-2					
Mercury, Dissolved	98	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1493733-2					
Aluminum, Dissolved	96	-	80-120	-	

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Matrix Spike Analysis
Batch Quality Control

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	Recovery Limits	RPD Qual	RPD Limits
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Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491407-3 QC Sample: L2120976-01 Client ID: MS Sample

Aluminum, Total	5180	164	5090	0	Q	-	-	75-125	-	20
Antimony, Total	0.962J	41	37.1	90		-	-	75-125	-	20
Arsenic, Total	ND	9.84	12.2	124		-	-	75-125	-	20
Barium, Total	47.4	164	188	86		-	-	75-125	-	20
Beryllium, Total	0.498	4.1	4.28	92		-	-	75-125	-	20
Cadmium, Total	0.888	4.18	4.63	89		-	-	75-125	-	20
Calcium, Total	1210	820	2460	152	Q	-	-	75-125	-	20
Chromium, Total	16.1	16.4	29.6	82		-	-	75-125	-	20
Cobalt, Total	7.20	41	43.3	88		-	-	75-125	-	20
Copper, Total	44.0	20.5	52.7	42	Q	-	-	75-125	-	20
Iron, Total	40500	82	21900	0	Q	-	-	75-125	-	20
Lead, Total	7.33	41.8	46.1	93		-	-	75-125	-	20
Magnesium, Total	1960	820	2330	45	Q	-	-	75-125	-	20
Manganese, Total	850	41	442	0	Q	-	-	75-125	-	20
Nickel, Total	12.5	41	47.9	86		-	-	75-125	-	20
Potassium, Total	799	820	1410	74	Q	-	-	75-125	-	20
Selenium, Total	1.05J	9.84	10.4	106		-	-	75-125	-	20
Silver, Total	ND	24.6	23.3	95		-	-	75-125	-	20
Sodium, Total	130J	820	924	113		-	-	75-125	-	20
Thallium, Total	0.448J	9.84	7.40	75		-	-	75-125	-	20
Vanadium, Total	28.4	41	57.5	71	Q	-	-	75-125	-	20



Matrix Spike Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491407-3 QC Sample: L2120976-01 Client ID: MS Sample								
Zinc, Total	39.9	41	64.9	61	Q	-	75-125	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491409-3 QC Sample: L2120976-01 Client ID: MS Sample								
Mercury, Total	ND	0.15	0.154	102	-	-	80-120	20



Project Name: ICF2102
Project Number: ICF2102

Matrix Spike Analysis
Batch Quality Control

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492300-3 QC Sample: L2121706-01 Client ID: MS Sample								
Aluminum, Total	0.178	2	2.08	95	-	-	75-125	20
Antimony, Total	0.0064	0.5	0.5595	111	-	-	75-125	20
Arsenic, Total	0.0472	0.12	0.1794	110	-	-	75-125	20
Barium, Total	0.07740	2	2.170	105	-	-	75-125	20
Beryllium, Total	ND	0.05	0.04619	92	-	-	75-125	20
Cadmium, Total	ND	0.051	0.05360	105	-	-	75-125	20
Calcium, Total	144	10	168	240	Q	-	75-125	20
Chromium, Total	0.1484	0.2	0.3903	121	-	-	75-125	20
Cobalt, Total	0.00080	0.5	0.4976	99	-	-	75-125	20
Copper, Total	0.00233	0.25	0.2586	102	-	-	75-125	20
Iron, Total	0.300	1	1.30	100	-	-	75-125	20
Lead, Total	0.0007J	0.51	0.5253	103	-	-	75-125	20
Magnesium, Total	0.061J	10	10.6	106	-	-	75-125	20
Manganese, Total	0.0011	0.5	0.4809	96	-	-	75-125	20
Nickel, Total	0.00199J	0.5	0.4791	96	-	-	75-125	20
Potassium, Total	224	10	250	260	Q	-	75-125	20
Selenium, Total	0.00356J	0.12	0.128	107	-	-	75-125	20
Silver, Total	ND	0.05	0.05011	100	-	-	75-125	20
Sodium, Total	977	10	946	0	Q	-	75-125	20
Thallium, Total	0.0003J	0.12	0.1225	102	-	-	75-125	20
Vanadium, Total	0.0043J	0.5	0.4923	98	-	-	75-125	20



Matrix Spike Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492300-3 QC Sample: L2121706-01 Client ID: MS Sample								
Zinc, Total	0.04048	0.5	0.5870	109	-	-	75-125	20
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492301-3 QC Sample: L2121706-01 Client ID: MS Sample								
Mercury, Total	ND	0.005	0.00479	96	-	-	75-125	20



Matrix Spike Analysis Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492818-3 QC Sample: L2120445-05 Client ID: GW001								
Aluminum, Dissolved	1.07	2	3.16	104	-	-	75-125	20
Antimony, Dissolved	0.00078J	0.5	0.4816	96	-	-	75-125	20
Arsenic, Dissolved	0.00035J	0.12	0.1275	106	-	-	75-125	20
Barium, Dissolved	0.02464	2	2.024	100	-	-	75-125	20
Beryllium, Dissolved	ND	0.05	0.05172	103	-	-	75-125	20
Cadmium, Dissolved	ND	0.051	0.05489	108	-	-	75-125	20
Calcium, Dissolved	24.0	10	36.0	120	-	-	75-125	20
Chromium, Dissolved	0.00361	0.2	0.1970	97	-	-	75-125	20
Cobalt, Dissolved	0.00110	0.5	0.4880	97	-	-	75-125	20
Copper, Dissolved	0.00489	0.25	0.2540	100	-	-	75-125	20
Iron, Dissolved	2.29	1	3.30	101	-	-	75-125	20
Lead, Dissolved	0.00143	0.51	0.5132	100	-	-	75-125	20
Magnesium, Dissolved	7.62	10	17.8	102	-	-	75-125	20
Manganese, Dissolved	0.05244	0.5	0.5255	95	-	-	75-125	20
Nickel, Dissolved	0.00339	0.5	0.4769	95	-	-	75-125	20
Potassium, Dissolved	2.66	10	13.2	105	-	-	75-125	20
Selenium, Dissolved	ND	0.12	0.130	108	-	-	75-125	20
Silver, Dissolved	ND	0.05	0.04987	100	-	-	75-125	20
Sodium, Dissolved	2.95	10	13.2	102	-	-	75-125	20
Thallium, Dissolved	0.00037J	0.12	0.1181	98	-	-	75-125	20
Vanadium, Dissolved	0.00268J	0.5	0.4820	96	-	-	75-125	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492818-3 QC Sample: L2120445-05 Client ID: GW001									
Zinc, Dissolved	0.01715	0.5	0.5622	109	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492819-3 QC Sample: L2120445-06 Client ID: GW002									
Mercury, Dissolved	ND	0.005	0.00498	100	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1493733-3 QC Sample: L2120445-06 Client ID: GW002									
Aluminum, Dissolved	0.00986J	4	3.70	92	-	-	75-125	-	20



Lab Duplicate Analysis
Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491407-4 QC Sample: L2120976-01 Client ID: DUP Sample						
Aluminum, Total	5180	4360	mg/kg	17		20
Antimony, Total	0.962J	0.531J	mg/kg	NC		20
Arsenic, Total	ND	2.22	mg/kg	NC		20
Barium, Total	47.4	36.3	mg/kg	27	Q	20
Beryllium, Total	0.498	0.348J	mg/kg	NC		20
Cadmium, Total	0.888	0.439J	mg/kg	NC		20
Calcium, Total	1210	1410	mg/kg	15		20
Chromium, Total	16.1	14.9	mg/kg	8		20
Cobalt, Total	7.20	5.94	mg/kg	19		20
Copper, Total	44.0	36.7	mg/kg	18		20
Lead, Total	7.33	6.36	mg/kg	14		20
Magnesium, Total	1960	1510	mg/kg	26	Q	20
Manganese, Total	850	390	mg/kg	74	Q	20
Nickel, Total	12.5	12.4	mg/kg	1		20
Potassium, Total	799	669	mg/kg	18		20
Selenium, Total	1.05J	0.804J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	130J	108J	mg/kg	NC		20
Thallium, Total	0.448J	ND	mg/kg	NC		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491407-4 QC Sample: L2120976-01 Client ID: DUP Sample					
Vanadium, Total	28.4	22.1	mg/kg	25	Q 20
Zinc, Total	39.9	19.6	mg/kg	68	Q 20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491407-4 QC Sample: L2120976-01 Client ID: DUP Sample					
Iron, Total	40500	21100	mg/kg	63	Q 20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491409-4 QC Sample: L2120976-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492300-4 QC Sample: L2121706-01 Client ID: DUP Sample					
Aluminum, Total	0.178	0.172	mg/l	3	20
Barium, Total	0.07740	0.07406	mg/l	4	20
Cobalt, Total	0.00080	0.00076	mg/l	5	20
Copper, Total	0.00233	0.00231	mg/l	1	20
Iron, Total	0.300	0.291	mg/l	3	20
Nickel, Total	0.00199J	0.00190J	mg/l	NC	20
Selenium, Total	0.00356J	0.00333J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.04048	0.03890	mg/l	4	20
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492301-4 QC Sample: L2121706-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492818-4 QC Sample: L2120445-05 Client ID: GW001					
Aluminum, Dissolved	1.07	1.06	mg/l	1	20
Antimony, Dissolved	0.00078J	0.00121J	mg/l	NC	20
Arsenic, Dissolved	0.00035J	0.00044J	mg/l	NC	20
Barium, Dissolved	0.02464	0.02448	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	24.0	24.2	mg/l	1	20
Chromium, Dissolved	0.00361	0.00349	mg/l	3	20
Cobalt, Dissolved	0.00110	0.00113	mg/l	3	20
Copper, Dissolved	0.00489	0.00461	mg/l	6	20
Iron, Dissolved	2.29	2.28	mg/l	0	20
Lead, Dissolved	0.00143	0.00141	mg/l	1	20
Magnesium, Dissolved	7.62	7.66	mg/l	1	20
Manganese, Dissolved	0.05244	0.05210	mg/l	1	20
Nickel, Dissolved	0.00339	0.00336	mg/l	1	20
Potassium, Dissolved	2.66	2.69	mg/l	1	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	2.95	2.96	mg/l	0	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492818-4 QC Sample: L2120445-05 Client ID: GW001					
Thallium, Dissolved	0.00037J	0.00097J	mg/l	NC	20
Vanadium, Dissolved	0.00268J	0.00263J	mg/l	NC	20
Zinc, Dissolved	0.01715	0.01679	mg/l	2	20
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492819-4 QC Sample: L2120445-06 Client ID: GW002					
Mercury, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1493733-4 QC Sample: L2120445-06 Client ID: GW002					
Aluminum, Dissolved	0.00986J	0.00778J	mg/l	NC	20

Lab Serial Dilution Analysis Batch Quality Control

Project Name: ICF2102

Lab Number: L2120445

Project Number: ICF2102

Report Date: 05/05/21

Parameter	Native Sample		Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491407-6 QC Sample: L2120976-01 Client ID: DUP Sample							
Aluminum, Total	5180	4310	mg/kg	17			20
Barium, Total	47.4	40.4	mg/kg	15			20
Calcium, Total	1210	1070	mg/kg	12			20
Copper, Total	44.0	46.1	mg/kg	5			20
Magnesium, Total	1960	2050	mg/kg	5			20
Manganese, Total	850	772	mg/kg	9			20
Vanadium, Total	28.4	29.4	mg/kg	4			20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1491407-6 QC Sample: L2120976-01 Client ID: DUP Sample							
Iron, Total	40500	49100	mg/kg	21	Q		20
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492300-6 QC Sample: L2121706-01 Client ID: DUP Sample							
Barium, Total	0.07740	0.07470	mg/l	3			20

**Lab Serial Dilution
Analysis**
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	Serial Dilution	Units	% D	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1492818-6 QC Sample: L2120445-05 Client ID: GW001					
Aluminum, Dissolved	1.07	1.04	mg/l	3	20
Barium, Dissolved	0.02464	0.02359	mg/l	4	20
Calcium, Dissolved	24.0	23.2	mg/l	3	20
Iron, Dissolved	2.29	2.14	mg/l	7	20
Magnesium, Dissolved	7.62	7.47	mg/l	2	20
Manganese, Dissolved	0.05244	0.04967	mg/l	5	20
Potassium, Dissolved	2.66	2.60	mg/l	2	20
Sodium, Dissolved	2.95	2.86	mg/l	3	20



INORGANICS & MISCELLANEOUS

Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-01

Client ID: SB001_0-2

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 09:10

Date Received: 04/21/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	04/22/21 11:52	121,2540G	RI



Project Name: ICF2102**Project Number:** ICF2102**Lab Number:** L2120445**Report Date:** 05/05/21**SAMPLE RESULTS****Lab ID:** L2120445-02**Client ID:** SB002_3-5**Sample Location:** 28-12 41ST AVE, LONG ISLAND CITY, NY**Date Collected:** 04/21/21 10:20**Date Received:** 04/21/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	04/22/21 11:52	121,2540G	RI



Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-03

Client ID: SB003_0-2

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 10:45

Date Received: 04/21/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	04/22/21 11:52	121,2540G	RI



Project Name: ICF2102

Project Number: ICF2102

Lab Number: L2120445

Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2120445-04

Client ID: SB004_5-7

Sample Location: 28-12 41ST AVE, LONG ISLAND CITY, NY

Date Collected: 04/21/21 11:50

Date Received: 04/21/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	04/22/21 11:52	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1489434-1 QC Sample: L2119929-08 Client ID: DUP Sample						
Solids, Total	84.0	83.7	%	0		20



Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information
Cooler A
Custody Seal Absent

Container Information			Initial			Final			Frozen			Analysis(*)
Container ID	Container Type	Cooler	pH	pH	deg C	Pres	Seal	Date/Time				
L2120445-01A	Vial MeOH preserved	A	NA	NA	3.3	Y	Absent					NYTCL-8260HLW(14),NYTCL-8260H(14)
L2120445-01B	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27				NYTCL-8260HLW(14),NYTCL-8260H(14)
L2120445-01C	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27				NYTCL-8260HLW(14),NYTCL-8260H(14)
L2120445-01D	Plastic 120ml unpreserved	A	NA	NA	3.3	Y	Absent					TS(7)
L2120445-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	3.3	Y	Absent					BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),NI-Ti(180),AL-Ti(180),TL-Ti(180),CR-Ti(180),ZN-Ti(180),PB-Ti(180),SE-Ti(180),CU-Ti(180),SB-Ti(180),V-Ti(180),CO-Ti(180),MN-Ti(180),FE-Ti(180),HG-Ti(28),MG-Ti(180),CD-Ti(180),K-Ti(180),CA-Ti(180),NA-Ti(180)
L2120445-01F	Glass 120ml/4oz unpreserved	A	NA	NA	3.3	Y	Absent					NYTCL-8270(14)
L2120445-02A	Vial MeOH preserved	A	NA	NA	3.3	Y	Absent					NYTCL-8260HLW(14)
L2120445-02B	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27				NYTCL-8260HLW(14)
L2120445-02C	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27				NYTCL-8260HLW(14)
L2120445-02D	Plastic 120ml unpreserved	A	NA	NA	3.3	Y	Absent					TS(7)
L2120445-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	3.3	Y	Absent					BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),AL-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),SB-Ti(180),V-Ti(180),CO-Ti(180),MN-Ti(180),FE-Ti(180),HG-Ti(28),MG-Ti(180),CD-Ti(180),K-Ti(180),CA-Ti(180),NA-Ti(180)
L2120445-02F	Glass 120ml/4oz unpreserved	A	NA	NA	3.3	Y	Absent					NYTCL-8270(14)
L2120445-03A	Vial MeOH preserved	A	NA	NA	3.3	Y	Absent					NYTCL-8260HLW(14)
L2120445-03B	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27				NYTCL-8260HLW(14)
L2120445-03C	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27				NYTCL-8260HLW(14)
L2120445-03D	Plastic 120ml unpreserved	A	NA	NA	3.3	Y	Absent					TS(7)



Project Name: ICF2102
Project Number: ICF2102

Serial_No:05052119:43
Lab Number: L2120445
Report Date: 05/05/21

Container Information				Initial		Final		Temp		Frozen		Analysis(*)
Container ID	Container Type	Cooler	pH	pH	deg C	Pres	Seal	Date/Time				
L2120445-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	3.3	Y	Absent				BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),AL-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),PB-Ti(180),CO-Ti(180),V-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),FE-Ti(180),CA-Ti(180),NA-Ti(180),CD-Ti(180),K-Ti(180)	
L2120445-03F	Glass 120ml/4oz unpreserved	A	NA	NA	3.3	Y	Absent				NYTCL-8270(14)	
L2120445-04A	Vial MeOH preserved	A	NA	NA	3.3	Y	Absent				NYTCL-8260HLW(14)	
L2120445-04B	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27			NYTCL-8260HLW(14)	
L2120445-04C	Vial water preserved	A	NA	NA	3.3	Y	Absent	22-APR-21 11:27			NYTCL-8260HLW(14)	
L2120445-04D	Plastic 120ml unpreserved	A	NA	NA	3.3	Y	Absent				TS(7)	
L2120445-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	3.3	Y	Absent				BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),NI-Ti(180),AL-Ti(180),CR-Ti(180),TL-Ti(180),CU-Ti(180),ZN-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),CO-Ti(180),V-Ti(180),MG-Ti(180),FE-Ti(180),HG-T(28),MN-Ti(180),CA-Ti(180),CD-Ti(180),NA-Ti(180),K-Ti(180)	
L2120445-04F	Glass 120ml/4oz unpreserved	A	NA	NA	3.3	Y	Absent				NYTCL-8270(14)	
L2120445-05A	Vial HCl preserved	A	NA	NA	3.3	Y	Absent				NYTCL-8260(14)	
L2120445-05B	Vial HCl preserved	A	NA	NA	3.3	Y	Absent				NYTCL-8260(14)	
L2120445-05C	Vial HCl preserved	A	NA	NA	3.3	Y	Absent				NYTCL-8260(14)	
L2120445-05D	Plastic 250ml unpreserved	A	7	7	3.3	Y	Absent				-	
L2120445-05E	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent				BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),AL-6020T(180),AG-6020T(180),CO-6020T(180)	
L2120445-05F	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent				NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)	
L2120445-05G	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent				NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)	

Serial_No:05052119:43
Lab Number: L2120445
Report Date: 05/05/21

Project Name: ICF2102
Project Number: ICF2102

Container Information				Initial		Final		Temp		Frozen		Analysis(*)
Container ID	Container Type	Cooler	pH	pH	deg C	Pres	Seal	Date/Time				
L2120445-05X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	3.3	Y	Absent					K-6020S(180),V-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),PB-6020S(180),TL-6020S(180),NI-6020S(180),NA-6020S(180),BA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2120445-06A	Vial HCl preserved	A	NA	NA	3.3	Y	Absent					NYTCL-8260(14)
L2120445-06B	Vial HCl preserved	A	NA	NA	3.3	Y	Absent					NYTCL-8260(14)
L2120445-06C	Vial HCl preserved	A	NA	NA	3.3	Y	Absent					NYTCL-8260(14)
L2120445-06D	Plastic 250ml unpreserved	A	7	7	3.3	Y	Absent					-
L2120445-06E	Plastic 250ml HNO3 preserved	A	5	<2	3.3	N	Absent					BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2120445-06F	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent					NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2120445-06G	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent					NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2120445-06X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	3.3	Y	Absent					K-6020S(180),CU-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),MG-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days



Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name: ICF2102
Project Number: ICF2102

Lab Number: L2120445
Report Date: 05/05/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21**Data Qualifiers**

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: ICF2102**Lab Number:** L2120445**Project Number:** ICF2102**Report Date:** 05/05/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 19

Department: **Quality Assurance**

Published Date: 4/2/2021 1:14:23 PM

Title: **Certificate/Approval Program Summary**

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

